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HIGH TIMES

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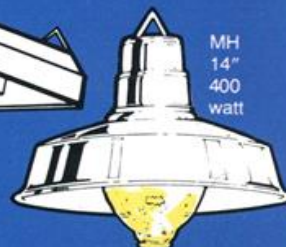
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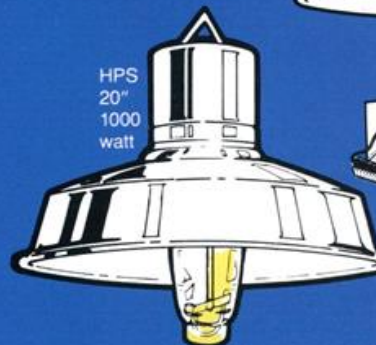
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20" Horizontal Super Reflective Hood



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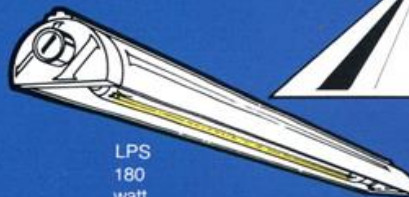
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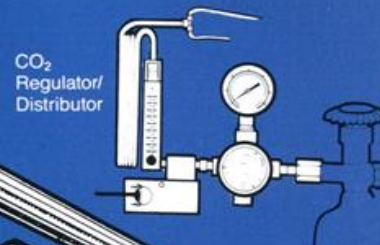
MH Deluxe Ballast



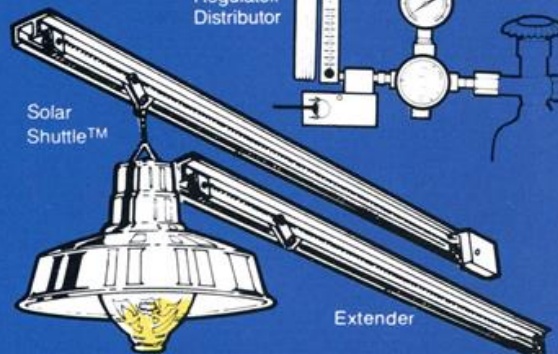
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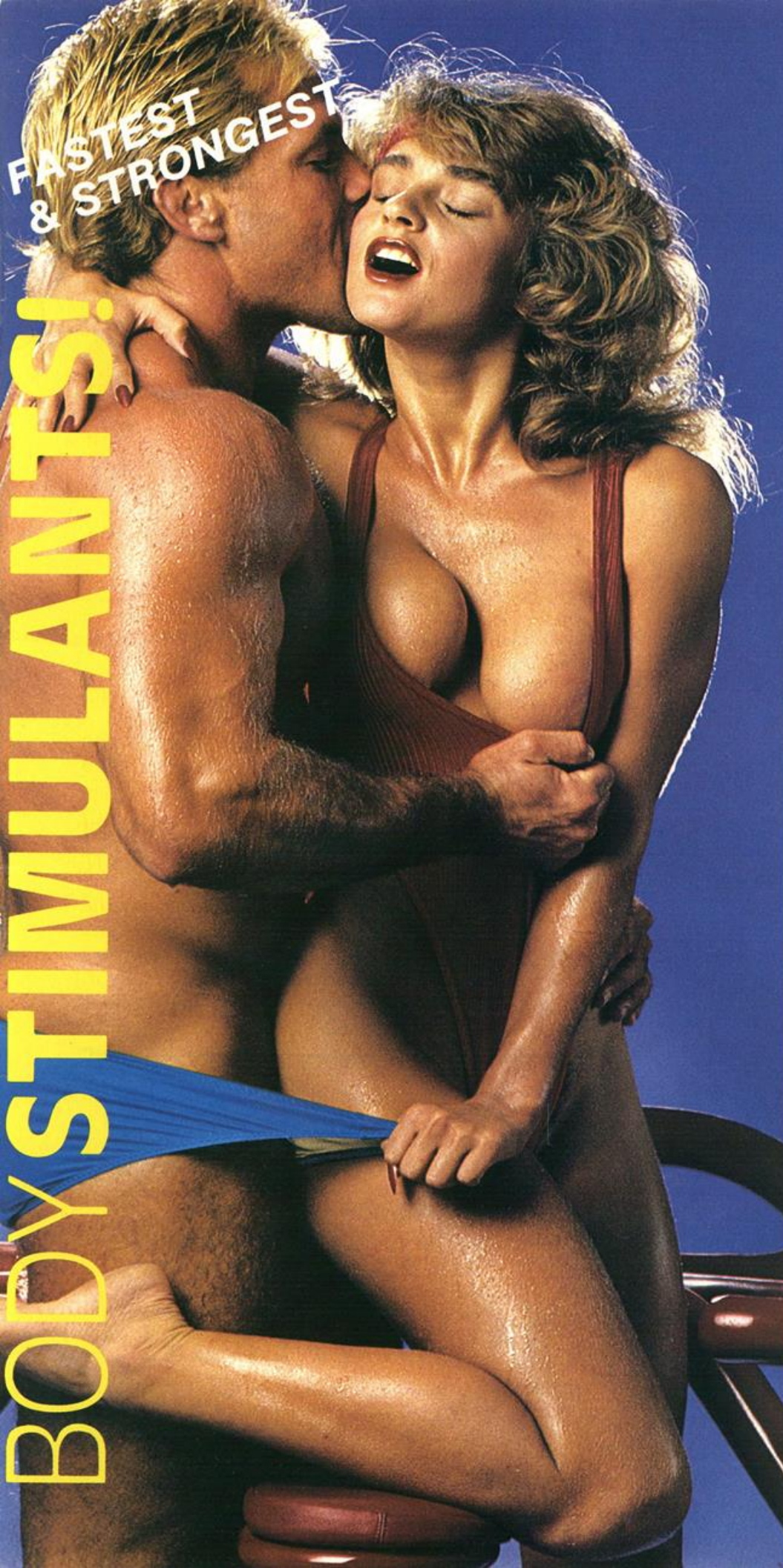
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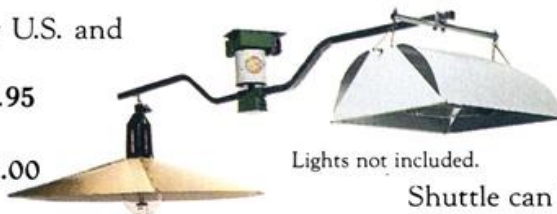
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OCT. 1988

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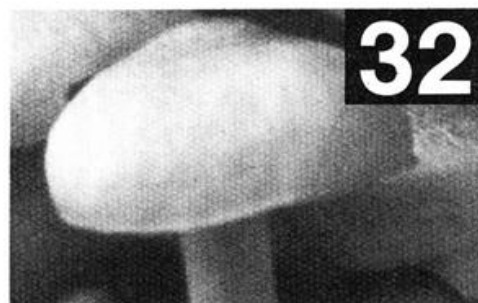
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On the Cover: Photograph of indoor grown Naked Lady by Andre Grossmann. Bat skeleton courtesy of Maxilla and Mandible, NYC



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PAGE SIX



As far as cannabis history goes, it qualified as a momentous event: after years of anonymity, Ed Rosenthal, the guru of ganja, agreed to appear on the Morton Downey, Jr. Show to debate the feasibility of the government's decision to spray paraquat.

Jon Gettman of NORML and safe-drugs activist Dana Beal were also invited. This trio squared off against Geri Silverman and Otto Moulton of the New Jersey Federation of Drug Free Communities, and Police Officer Steve Rogers.

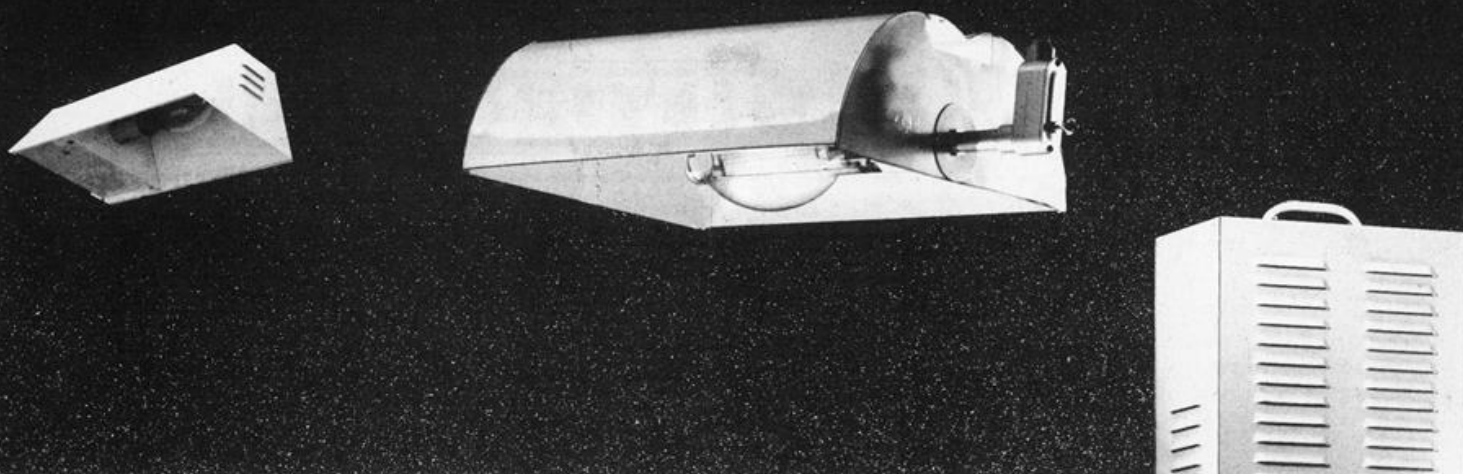
If the quality of our opposition is any indication, surely we must be closing in on legalization. Never have so many myths and mistakes concerning cannabis been so fervently held up as fact, including such statements as: "Paraquat is biodegradable...paraquat is the safest herbicide in the world...marijuana smoking is a progressive disease that leads to AIDS...one joint is enough to make a person take a shotgun and blow off a police officer's head...Alaska has a horrendous marijuana problem...no one is in jail for just smoking marijuana...after smoking so many joints, the marijuana smoker doesn't get high anymore and has to progress to cocaine and crack..."

Sad to think that after all these years, the same lies continue to perpetuate. Even sadder was the shrill personal attacks on the pro-marijuana forces. "Just look at you!" screamed Moulton at Dana Beal. "You're a perfect example of brain damage." Aren't we living in a country that prides itself on personal freedom, including the freedom to dress as one chooses? The Parents for Drug-Free Youth won't end their crusade until they've turned every child in America into a corporate-loving yuppie zombie.

However, they'd better watch out 'cause now they have Ed Rosenthal to contend with. Why not join Ed, readers? Step out of that cannabis closet you're hiding in. Support NORML, attend cannabis rallies, and help remove the stigma surrounding marijuana. And don't forget to watch for Ed on future talk shows. He was such a hit (Mort patted him on the head and at one point actually sat in his lap) that he's sure to be invited back soon.

Sincerely,

Steven Hager
Editor-in-Chief



THE FACTS ARE IN HAMILTON'S GROW LIGHTS ARE THE NEW #1 IN THE U.S.A.

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Comparison of Ballast Enclosure Design

Hamilton Technology

38 bi-level louvers, 3-way

Competitor A

12 louvers

Competitor B

12 louvers

Competitor C

11 louvers

Competitor D (slot type, not louvered)

Source: Manufacturer's 7/1988 Products

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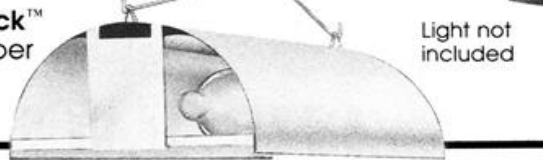
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More growers rely on **HYDROFARM** products than any other brand of equipment. Why? Because **HYDROFARM** products are designed for optimum performance and are manufactured for quality, safety, and durability.

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The Hydrofarm Light Track™
FASTER! 20% more laps per lighting cycle.
6' Ft. System . . \$99.95



Light not included



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Compare our features:

HYDROFARM LIGHT TRACK™

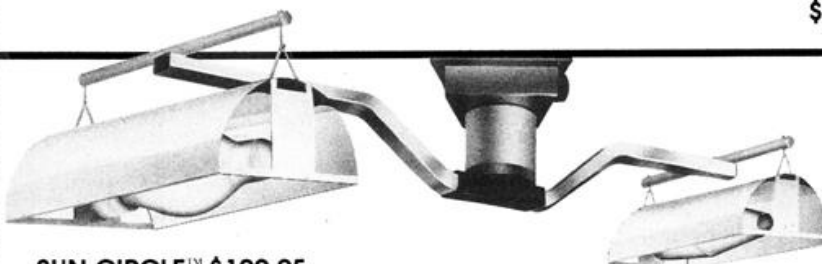
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Professional quality automated Ebb & Flow with Geolite in a single unit size. 2' x 2'. Includes nutrients, pump, timer, etc.
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SUN CIRCLE™ \$199.95

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One-arm Sun Circle **\$139.95**

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Recommended for seedlings and cutting starts, low ceilings. Same spectrum as the sun. Twisted for more light.
Box of six 48" tubes **\$74.95**

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SPECIAL OFFER

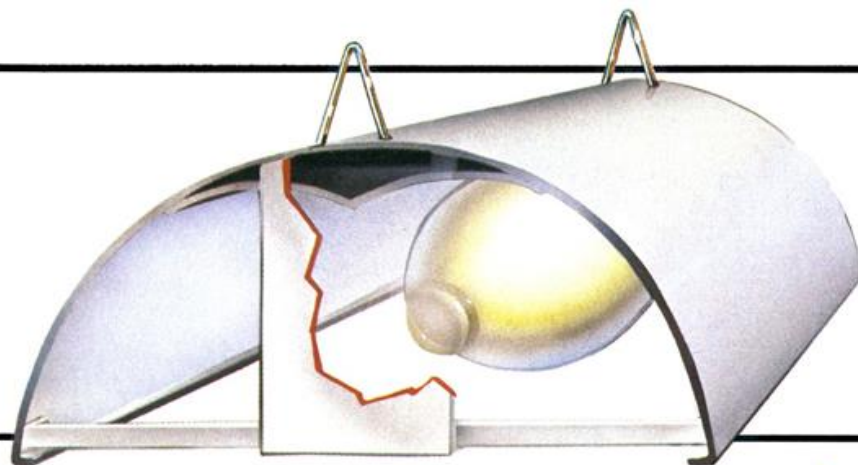
With every purchase of **HYDROFARM** products we are giving away a copy of **MEGACROP**, the latest book on increasing your yield. This offer is available at all participating authorized retail outlets as well as through phone and mail orders.



Why buy from us?

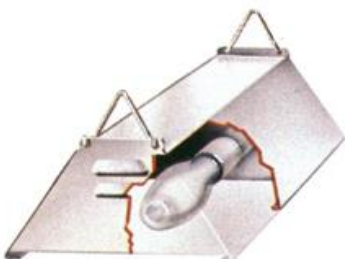
Applied Hydroponics has been the leading manufacturer of indoor gardening equipment since 1977. We are the oldest and the largest. Time tested and proven, our record for quality, reliability, and service speaks for itself; **HYDROFARM** brand products are the choice of more growers and retailers than all others combined!

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THE HYDROFARM GROW WING™ (pat. pend.)
Delivers more light intensity than any other reflector, horizontal or vertical!

- Horizontal system with double parabola design for the most efficient light reflection—**THE BEST!**
- Low profile for more vertical growing space
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Choose 175 watt metal halide or 150 watt HPS system.

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BALLAST (Included)
 Improved design with double-wall steel construction, front and rear bi-level louvers, all UL components.

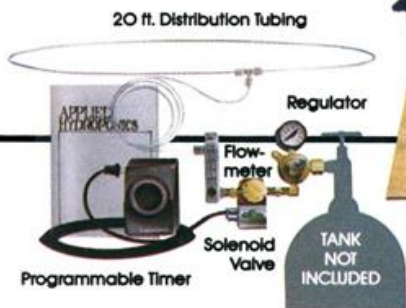
LIGHTING SYSTEMS

1000 MH	\$199.95
400 MH	149.95
1000 HPS	264.95
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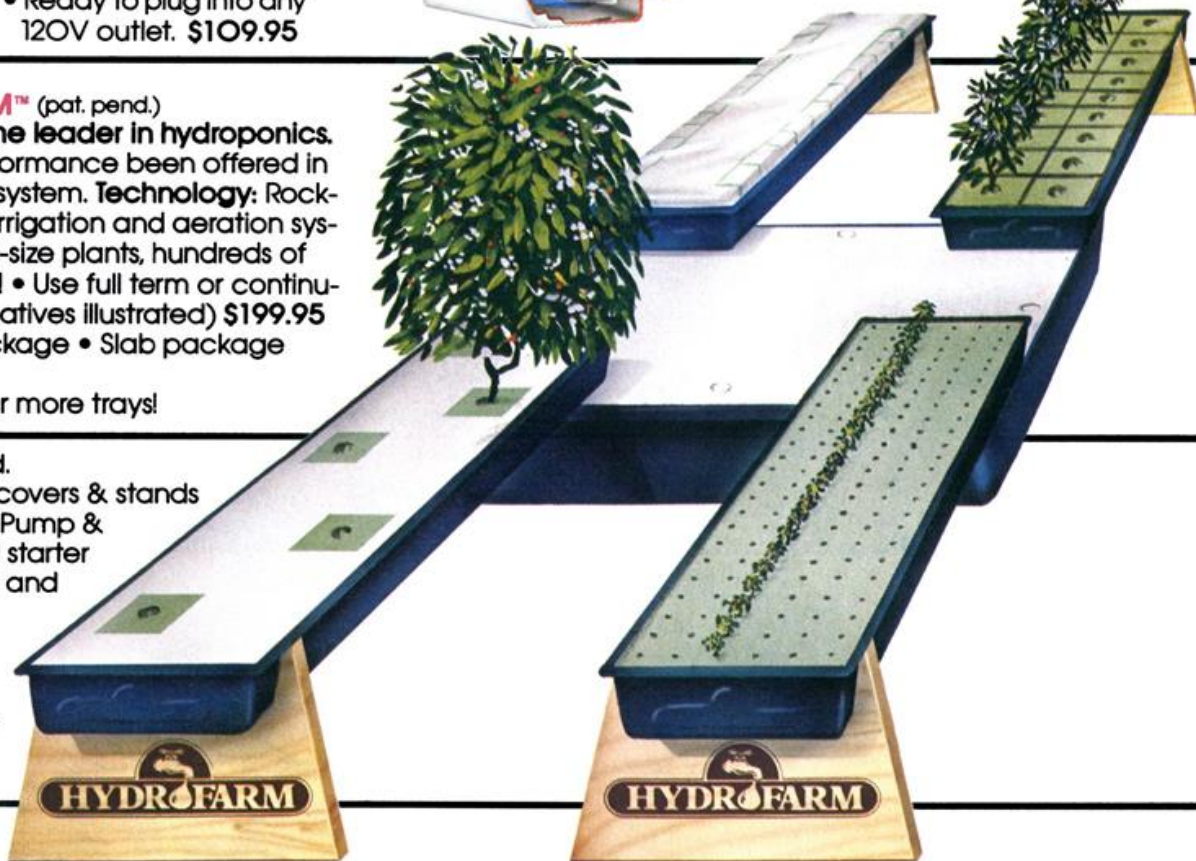
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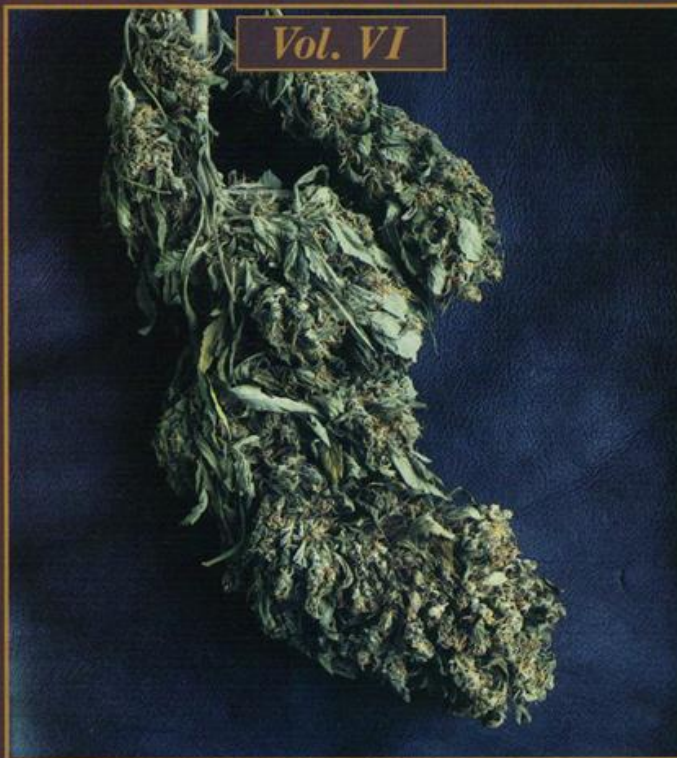
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PLUS • Bonus articles never before published: How to Grow 'Shrooms Indoors, and Ruderalis, Friend or Foe?



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Solar Shuttle Motor	22.00
Whirligig Light Turret	119.00
Sun Circle Light Rotator 360° One revolution every 40 minutes.	
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Dayton 15 amp/120 volt	19.95
Dayton 40 amp/120 volt	37.95
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Cycle Timer 1-60 min. on/off	79.00

BULBS

METAL HALIDE BULBS

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M400—34,000 lumens-20,000 hours	36.95
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M1000—110,000 lumens-12,000 hours	54.95
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Phosphorous Coated Bulbs	Add 6.00

HIGH PRESSURE SODIUM CONVERSION BULBS

Now available. An energy saving sodium bulb that runs off your existing Metal Halide ballast.	
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LU150—16,000 lumens-24,000 hours	39.00
LU400—50,000 lumens-24,000 hours	52.95
LU1000—140,000 lumens-24,000 hours	94.95

LOW PRESSURE SODIUM BULBS

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Case of six	75.00

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(complete with socket and cord)

46" polished aluminum or white	49.00
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18" white	30.00
14" white	25.00
48" Parabolic hood	49.00
4"x4" square polished aluminum	115.00
5"x5" square polished aluminum	130.00

BALLASTS

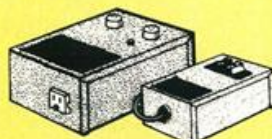
Metal Halide Ballasts (110v or 220v available)	
Deluxe 1000w (includes power supply)	115.00
Stan. 1000w	105.00
Econ. 1000w (uncovered)	97.00
Deluxe 400w (includes power supply)	95.00
Stan. 400w	85.00
Economy 400w (uncovered)	70.00
Ballast cover	10.00
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Deluxe 1000w	170.50
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4 unit hydrosplot	208.00
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Each additional hydrosplot	16.00

SUBMERSIBLE PUMPS

#2P495-120 GPH	37.95
#1P553-140 GPH	39.95
#1P321-300 GPH	56.95



SURGE SURVIVAL SYSTEM

Command Module with one Remote	
Module (120 or 240 volts)	139.00
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Light Intensity Meter	24.99
Plant Computer	19.95
PH Computer	19.95
Soil Salts Meter	20.99
Moisture Meter	11.95
MIN/MAX Thermometer	32.95
Taylor 4" Barometer	39.95
Fertilizer Analyzer	20.99
Humidity Gauge	21.95
Deluxe Humidity and Temperature Gauge	36.95
CO ₂ Gas Detector System (2 analyzer tubes incl.)	19.95
CO ₂ Analyzer Tubes	3.75
CO ₂ Tester	8.99



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Sudbury Soil Test Kit (Tests Ph, N, P, K)	14.95
Sudbury Soil PH Tester	3.99
Tetra Test Liquid PH Tester	3.95
Wardley Jr. Liquid PH Tester	3.95
Wardley Sr. PH Test Kit	5.99
Penn Plax Test Strip for Liquid PH	2.75

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Ventilator fan with Thermostat (14" 900 CFM)	69.95
Squirrel Cage-15 CFM	21.95
Squirrel Cage-50 CFM	29.95
Squirrel Cage-100 CFM	43.95
Squirrel Cage-160 CFM	54.95
Squirrel Cage-200 CFM	69.95
Squirrel Cage-265 CFM	69.95
Squirrel Cage-320 CFM	74.95
Squirrel Cage-465 CFM	79.95
Squirrel Cage-525 CFM	89.95
Squirrel Cage-960 CFM	159.95
Thermostat	19.95
Auto Flo Humidistat	34.95

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CO ₂ Regulator/Distributor	139.00
E.S.U. CO ₂ Generator (up to 500 sq. ft.)	324.00
Johnson CO ₂ Generator (up to 4800 sq. ft.)	499.00

CHARCOAL FILTER SYSTEMS

Skunk Buster #100	109.00
Skunk Buster #200	169.00
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NEGATIVE ION GENERATORS

Airease	49.95
Pulsair	99.00



GROWING SUPPLIES

Mylar (Double-sided 99% reflectivity)	
4"x50" roll	29.00
4"x100" roll	49.00
Mini Grow House	14.95
Rock Wool	
2"x2" Cubes	20
3"x3" Cubes	39
3"x4" Cubes	49
40 lb. Bale	39.00
Rock Wool Slabs	
3"x6"x3"	4.99
3"x8"x3"	6.99
3"x12"x3"	10.99
Grow Bags	
2 Gallon Grow Bag	39
5 Gallon Grow Bag	59
7 Gallon Grow Bag	65
10 Gallon Grow Bag	69
Alka Liche	
1 quart	6.95
1 gallon	16.99
Safer Soap Insect Spray	
8 oz. spray	2.99
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Jiffy 7 Peat Pellets (2 doz.)	2.40
Wilt Pruf Plant Protector (Keeps leaves from burning)	
14 oz. Spray	5.49
1 pint concentrate	8.99

BLACK GOLD FERTILIZER

All Organic 1.5 cu. ft.	8.99
Pure Earthworm Castings 20 quarts	13.95

NUTRIENTS

Greenleaves All Purpose Liquid Nutrient— ideal for all stages of growth. Use with soil or hydroponic systems.	
12 oz. bottle	3.95
1 gallon	19.95
Super Bloom Liquid Greenleaves 10-40-10	
12 oz. bottle	5.95
1 gallon	24.95
E.S.U. Dry Concentrate—concentrated water soluble fertilizer, 1 teasp. per gallon, 1 pound makes 100 gallons.	
Grow (20-6-16) Bloom (9-21-12) All Purpose (16-12-16)	
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5 lbs.	19.95
25 lbs.	79.00

ROOTING FORMULA

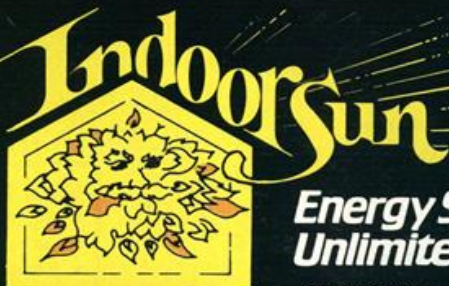
Great Roots—Super liquid rooting formula (with rooting hormones and minerals) 2 part	
13 oz. total	14.95

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Gardening Indoors	14.95
Beginning Hydroponics	7.95
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METAL HALIDE: Best for fast plant growth.

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High quality, assembled, QUIET, open ballast: 20' lamp cord; power cord; socket; 110,000 lumen / 12,000 hr. bulb. (For SUPER BULB, 14% brighter add \$14.00)

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Choice of: 24" Horizontal or 48" Parabolic reflector (for MAX-89 reflector add \$9.95). High quality, assembled, QUIET, ventilated ballast box; 20' lamp cord; 110,000 lumen / 12,000 hr. bulb. (For SUPER BULB, 14% brighter, add \$14.00).

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Choice of: 24" Horizontal or 48" Parabolic reflector (for MAX-89 reflector add \$9.95). High quality, assembled, QUIET, ventilated ballast box; 20' lamp cord; 34,000 lumen / 20,000 hr. bulb. (For SUPER BULB, 18% brighter add \$10.00).

COMBINATION MH/HPS HORIZONTAL SYSTEM **\$299.00**
Perfectly blended lights - 24" Horizontal, ventilated, super-reflective, electro-white aluminum reflector with 2 bulbs: a MH 400 & a HPS 400; QUIET, remote, ventilated ballasts. (For MAX-89 reflector add \$9.95) (For MH 1000 & HPS 400 add \$69.00).

HIGH PRESSURE SODIUM: Increases budding & flowering

HPS 1000 Watt Deluxe System (Reg. \$317) **\$255.95**
Choice of: 24" Horizontal, 48" Parabolic, or MAX-89 reflector. High quality, assembled, QUIET, ventilated ballast box; 20' lamp cord; 5KV socket; 140,000 lumen / 24,000 hr. bulb. Our most powerful light for flowering.

HPS 400 Watt Deluxe System (Reg. \$215) **\$174.95**
Choice of: 24" Horizontal or 48" Parabolic reflector. (For MAX-89, add \$9.95). High quality, assembled, QUIET, ventilated ballast box; 20' lamp cord, 50,000 lumen / 24,000 hr. bulb.

MINI-HORIZONTAL: MH 175w OR HPS 150w ... (Reg. \$119) **\$95.00**
Compact yet powerful, 20"X10"X6", electro-white, built-in ballast, economical to operate.

Grounded Light Timer, heavy duty, 15 Amp (Reg. \$20) **\$14.50**

LIGHT MOVERS: More light coverage to grow more plants.

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Best single light mover; 6' track; covers up to 8'X10'. (EXTENDER for 2nd light \$38.95)

SunCircle2™-Increases flowering by a blend of MH&HPS . \$187.95
Two lights rotate continuously in full circle; coverage: 8'X8' up to 12'X12'.

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HYDROPONICS: Our customers say their plant yields are three times greater and two times faster with Hamilton's automated "flood/drain" HYDROPRO system. Roots are provided maximum direct nutrition and aeration without soil. No soil pests, no soil odors, no weeding!

HYDROPRO SINGLE™: Ideal for 4 adult plants; min. 2'X2' area (Reg. \$65) **\$59.95**
Includes: pump, grow & bloom nutrients, timer, pH test kit, Jiffy 7, manual, etc.

HYDROPRO 4™: grow up to 16 adult plants; 3'X9' or 8'X8' area (Reg. \$199) **\$187.95**
Includes: submersible pump, grow & bloom nutrients, timer, pH test kit, Jiffy 7, manual, etc.

NEW HPS BULBS - That work in metal halide systems!
1000 Watt . (Reg. \$140) **\$129.50** 400 Watt . (Reg. \$70) **\$59.50**

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Includes: Regulator, flow meter, solenoid valve, delivery tubes.

FREE INDOOR GARDENING BOOKLET
With any system purchased

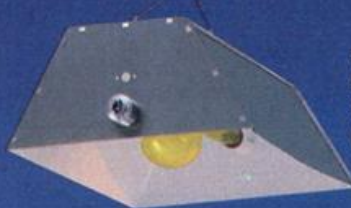
ION GENERATORS: Clean growing area of smoke, odors, pollen & pollutants.
AirEase \$49.95 **Pulsair** \$96.50 **Phase3** for max. odor elimination \$119.00

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DIGITAL Dissolved Solids (Conductivity) PEN (Reg. \$97) **\$58.95**

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52% more light than 45"!!
Ventilated, adjustable, electro-white
(24"X20"X10")



MAX-89 "THE ULTIMATE HORIZONTAL"
"DOUBLE ARC" for greatest efficiency,
low profile, adjustable, electro-white



Mini-Horizontal
20"X10"X6"



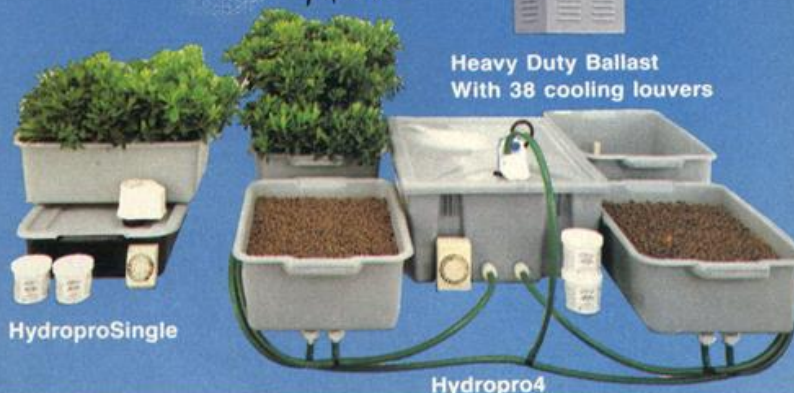
48" PARABOLIC, Ventilated,
18% more light than 45" cone



Metal Halide

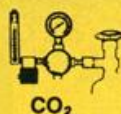


High Pressure Sodium



HydroproSingle

Hydropro4



CO₂



AirEase



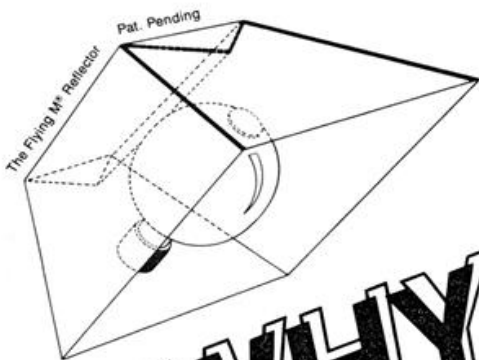
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WHY BUY FROM US?

5 years ago we introduced the horizontal reflector for use with Sodium and Halide lighting systems. In the past year most suppliers now have one in their line, and all claim that theirs is "THE BEST."

One year ago we developed the Tandem 4® system, using both Sodium and Halide lamps in ONE horizontal fixture. Almost immediately, one other supplier copied us, and, of course, they called theirs "THE BEST." What is the truth behind all these claims? We bought everyone's reflector and spent a lot of time measuring.

THESE ARE THE TEST RESULTS: ➡

* All tests conducted under identical conditions, with no ambient light. We used a GE Model 214 light meter, which is color and cosine corrected. We used identical lamps and ballasts, and lamps were always hung 40" from the floor to the centerline of the arc tube, and always allowed to warm up for 20 minutes. 21 measurements were taken one foot apart over a 10' x 10' cross pattern, and the readings averaged, in order to get a single number from which to compare. Ask for complete report.

AVERAGE FOOT-CANDLES IN A 10' x 10' AREA*

Supplier/Reflector Type	1000w HPS	Rank	400w HPS	Rank
GEOTECHNOLOGY Flying M®	1040	1	405	1
Company A	929	2	356	3
GEOTECHNOLOGY Standard Reflector	905	3	346	5
Company B	871	4	352	4
Company C	850	5	320	7
Company D	844	6	380	2
Company E	802	7	315	8
Company F	755	8	325	6
Company G	NA	NA	312	9
Company H 4' vertical reflector	641	9	NA	
Company I 4' vertical parabolic	549	10	NA	
GEOTECHNOLOGY Tandem 10®	1535	1		
GEOTECHNOLOGY Tandem 4®	NA	NA	692	1
Company B	NA	NA	602	2

(Sorry, we can't print the names of each company. But you can call or write for a complete report, with names.)

The only reason you buy a light is to get the most illumination in your working area. There is only one "BEST." Now you know which one it is!

Geotechnology, Inc.

The high-tech lighting company.

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ORDER FORM

SYSTEM	PRICE	SHIPPING (per system)	TOTAL COST (per line)
1000 watt metal halide with standard reflector	\$198	\$27	
1000 watt metal halide with Flying M® reflector	257	30	
400 watt metal halide with standard reflector	138	21	
400 watt metal halide with Mini M® reflector	197	24	
1000 watt HP sodium with standard reflector	264	32	
1000 watt HP sodium with Flying M® reflector	323	35	
400 watt HP sodium with standard reflector	198	25	
400 watt HP sodium with Mini M® reflector	257	28	

FINAL TOTAL: \$



CONCERNED PARENT

To my great dismay, I recently found a copy of HIGH TIMES under my teenage son's mattress (the July '88 issue). Your big emphasis seems to be on the legalization of marijuana, claiming that alcohol and tobacco are "the two most dangerous drugs in America." Agreed! But our family pharmacist tells me that a marijuana joint contains at least seven times the amount of carcinogens found in one tobacco "joint." I believe you have a right to publish HIGH TIMES, but you also have the responsibility to practice full disclosure regarding the dangers of the marijuana plant. Fess UP!

—A Very Concerned Parent
Versailles, Kentucky

Since our lungs are intended for inhaling air, smoking any substance presents a potential health hazard. However, this hazard is greatly increased by the chemicals used in growing and curing commercial tobacco. Although the link between smoking cigarettes and cancer is well established, there is no such evidence in regard to cannabis. Periodically, the government allows for a "new" study, but this research is always highly biased. For example, researchers are never given access to top-quality sinsemilla flowers, which is what most potheads smoke. Instead, they use government-grown hemp leaves. Since these leaves undoubtedly contain a higher concentration of tar than the flowers, the studies have little basis in reality. Lastly, it is easy to consume cannabis without smoking it—see *Cookin' With Chef Ra* (November '87).

VIVA DONAHUE

I hope your readers caught a recent airing of the Donahue Show featuring Jon Gettman, director of NORML. It was fantastic! A panel of attorneys, Baltimore's mayor [Kurt Schmoke], and

LETTERS

Send your gripes, questions, personal thoughts, and occasional compliments to: HIGH TIMES "Letters," 211 East 43rd Street, NYC 10017. Unless otherwise indicated, proper names are printed with initials only to protect the innocent, so sign your favorite pseudonym. And use a phony return address.

a Harvard physician [Lester Grinspoon] all called for legalization of pot. None were in favor of criminal sanctions for any drugs. Both the audience and Donahue seemed overwhelmingly in favor of legalizing pot. Maybe we're getting closer!

—C.G.

Beaumont, Texas

For a while I thought the HIGH TIMES crew was exiled from TV. Then I saw Donahue's show on legalization (7/7/88). At first I thought it was going to be another one of those "Don't Legalize" shows. But ALL THE GUESTS WERE IN FAVOR OF LEGALIZATION!!!! The best part was when a woman in the audience said pot caused brain damage and a Harvard professor called her view "ignorant." If you really want pot legalized you should devote one page of an upcoming issue to a form letter which would include an outline of why pot should be legalized. Then everyone could photocopy the page, sign it, and send it to their elected officials.

—Heathcliff

Stamford, Connecticut

NO HASH!

I sat down with the new issue of HIGH TIMES, put Physical Graffiti on the stereo and sparked up a doob. After reading the entire mag, I gotta say, whatta issue! I always enjoy my HIGH TIMES to the utmost, but you guys really outdid yourselves on the July issue! I went to the Ann Arbor Hash Bash and it was great! Only one complaint—no hash! My two friends and I smoked a fat one with Chef Ra. I'll always remember that.

Peace to you all,

—Jane Doe (a stoner chick)

Somewhere in Michigan

COOL RUNNINGS

I enjoyed your article on Negril, Jamaica in the March '88 issue. In October '87, I visited Negril and it was "cool running." My advice is don't let the bad stories keep you away. If you're the adventurous type and can keep a low profile, you'll

have a great time. A few pointers: don't drive and if you do, drive slowly and don't stop for locals; don't let the hustlers get to you (they're only trying to make a living); and leave the kids at home.

—Ganja Mike

Milford, Ohio

DRUG DOGS DAZED

I think drug sniffing dogs are cooler than Eskimo shit, and for a long time I've had this dream about fooling them. I'd like to find a chemist who could come up with a liquid spray that smells just like pot. Then everyone could go around with a water pistol and spray everything in sight. The dogs would be going after EVERYTHING! Eventually, they could go back to just licking their own balls like dogs are supposed to.

—Hiram Ernst

Dallas, Texas

RAINBOW DATES

How come you guys don't print the dates and locations of the Rainbow Gatherings anymore? I know it's too late for this year, but I'd appreciate it in the future.

—Randy

Atlanta, Georgia

P.S. Another Grateful Dead issue would be GRATE!!

If the Rainbow organizers would send us press notices six months in advance, we'd be happy to print the info in our Activist Calendar.

NEW DRUG MUZAK

I'm tired of reading about how great the rock groups of the '60s and '70s were. They were old news. If you think that old drug music was good, try listening to new drug music. Front 242 and Ministry provide the best headphone magic around. Skinny Puppy from Canada are the most sick, satanic, disturbing group I've ever heard. You oldies people are missing out.

—HIGH TIMES reader

Pittsburgh, Pennsylvania

continued on page 85

The **MAXIMUM** Light

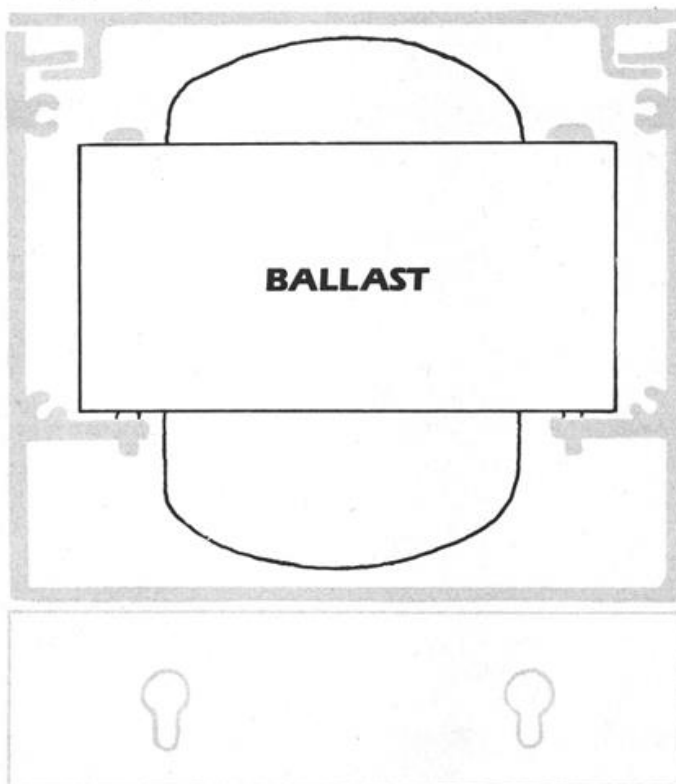
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PIONEERS IN THE MODERN ERA OF RESEARCH ON THE MINERAL NUTRITION OF PLANTS...ONE OF THEM WILL CHANGE YOUR LIFE



LUTHER BURBANK lived from 1849 to 1926, and not before or since has there been a greater contributor to plant development. Every domesticated fruit or vegetable or flower has been produced by Mr. Burbank directly or by his methodology.

Mr. Burbank's methodology was extremely simple: (1) First he would GATHER the most extensive seed stock of a particular species from all over the world. (2) Then he would PLANT all of the seeds closely together. From the resulting ten thousand plants, he would (3) SELECT one or two that had the most pronounced characteristic of size or shape or scent or color or whatever he was looking for. (4) From those one or two plants, all of the seeds were PLANTED and from the resulting ten thousand plants, only one or two would be (5) SELECTED that further developed more of the desired characteristic. This process of planting and selection would be repeated as often as necessary from a few generations to hundreds of generations until Mr. Burbank would release the final seed stock to the rest of the world.

Mr. Burbank grafted one hundred different types of apple branches onto a single apple tree and each branch bore a completely different fruit the first year for his personal selection. Inventing this grafting technique, he squeezed thousands of years of research into a few. The results of his work, from potatoes to apples to EVERY domesticated fruit, vegetable or flower, are what we grow today.

The Burbank Potatoe Quadrupled World Production in One Year. Luther Burbank never needed a lot of space. In his lifetime he conducted over one hundred thousand series of experiments and changed the world on less than three acres of land.



DENNIS ROBERT HOAGLAND, 1888-1949, was the inventor of the "four salt Hoagland solution" from which all HYDROPONICS are based. Although a brilliant botanist, Dr. Hoagland was interested in only one thing, the BIO-MASS (size and weight) of the TOMATO produced hydroponically. Working under the scientific assumptions of the early 1900s, Dr. Hoagland's world assumed four things.

A. Plants had a life cycle leading to death. WE NOW KNOW plants have a very different way of achieving a life and death cycle than does the human being. Humans are more genetically structured toward their life and death cycle than plants. Plants allow environmental factors more control over their life and death cycle as well as with their sex. Such things as (1) "PHOTO-PERIOD" (length of time under light and dark), (2) "THERMO-PERIOD" (length of time under temperature variation), and most importantly (3) "NUTRIENT PERIOD" (length of time under a given nutrient configuration were studied.)

B. Maximum SIZE and WEIGHT before death of (a) root, (b) shoot, (c) fruit — known as the "root to shoot to fruit ratio" — was the absolute goal. WE NOW KNOW much more about the root to shoot to fruit ratio. While keeping the fruit exactly the same size as normal, both the root (below the soil) and the shoot (above the soil) can be minimized. And by reducing the inter-nodal lengths (distance between the budding sites from an average of 6 inches to less than 1 inch), the number of normal sized fruit can increase up to thousands per plant depending on the plant type.

C. Plant "lush feeding" of excess nutrients meant nothing. WE NOW KNOW plant "lush feeding" kills the plant. The basis of the hydroponic method is that a fresh nutrient supply be pumped in while the used nutrient supply drains out. This allows the plant to absorb, for example, excess amounts of calcium. If allowed, the plant will absorb 10 times what it requires of calcium to the exclusion of other more beneficial nutrients like N, P, K, Mg, Na, Cl, etc. Too much calcium and the plant gets GARDENING OF THE ARTERIES and dies after one seasonal growth period.

D. An aqueous (water) based system without a "buffer" (soil having a cation exchange capacity, C.E.C.) was best. WE NOW KNOW an aqueous (water) based nutrient solution surrounding the root system without a "buffer" to protect the roots creates a "water root" — a thick, fleshy root that has layered itself with "fat" to protect itself. Nowhere near the amount of root surface area is produced hydroponically (water based) as when the roots are buffered against excess concentrations by a soil medium.

WE NOW KNOW that the soil mediums used by Dr. Hoagland, such as perlite, vermiculite, and sand have no buffering action or "CATION EXCHANGE CAPACITY" (C.E.C.). The CATION EXCHANGE CAPACITY of a soil medium is the ability of that medium to ABSORB AND RELEASE a nutrient solution. The cation exchange capacity of the soil medium protects the root system and allows it to produce thousands more root structures, thus producing thousands more square inches of root surface area. The greater the root surface area, the more efficient the nutrient uptake for faster growth.

The early 1900s did not have the advanced technology of today. Equipment for testing nutrient solutions and plant tissue such as the gas-liquid chromatographic assay (GLC), thin-layer chromatographic assay (TLC) and sophisticated atomic absorption equipment were not available.

With the aid of the computer since 1951, the medical profession by comparison has advanced in the last 30 years more than in the preceding 2,000 years. If Dennis Robert Hoagland had access to 1986 technology in 1920, he probably would have re-designed the hydroponic system.



JEFFERY JULIAN DEMARCO, 1951-_____, is President and founder of PYRAPONIC INDUSTRIES and is the inventor of the methodology known as GROWING PLANTS PYRAPONIMETRICALLY and the PHOTOTRON.

Three things are required to grow plants pyraponimetrically: 1. A laboratory grade growth chamber known as the PHOTOTRON. 2. A specific METHODOLOGY for plant growth and manipulation (instructions). 3. A very specific NUTRIENT SUPPLY COMPUTER DESIGNED IN PARTS PER MILLION (PPM) for each individual PHOTOTRON. The exact nutrient calibrations are individually calibrated based upon two soil samples taken from the phototron: one after FORTY-FIVE DAYS of plant growth and one after 90 DAYS of plant growth — ONLY TWO ARE REQUIRED.

Mr. DeMarco's Masters thesis was on the cannabinoid profile of marijuana. After working under both federal and state license in a laboratory at a major university for over two years, and since 1976 has developed the phototron, the methodology and the chemistry to study the internal workings of the plant (not just the SIZE and WEIGHT, but utmostly important to study the MOLECULAR and PHARMACOLOGIC properties of the plant). The research developed in pursuit of Mr. DeMarco's research PERTAINS TO ANY PLANT.

Pharmacognosy is the study of molecules produced inside plants. This type of study requires very sophisticated equipment like the Gas-Liquid Chromatogram (GLC), Thin-Layer Chromatogram (TLC) and Atomic Absorption.

THC-delta 9, the psychoactive molecule produced by the marijuana plant, is so microscopic that 100,000 molecules fit end to end would sit on the head of a pin. *When you're concerned about growing structures so infinitely tiny, what difference does the size of the plant make?*

In the disciplines of Botany, Horticulture, Plant Physiology, Soil Chemistry and Floraculture, a "root to shoot to fruit" ratio requires a large root and a large shoot to grow large fruit.

Growing plants Pyraponimetrically (by exactly measuring all 21 environmental elements), requires the plant to produce minimal root, minimal shoot (inter-nodal lengths) and maximize the number of budding sites and size of the bud, flower or fruit.

To develop the (A) PHOTOTRON, (B) the CHEMISTRY and (C) the plant manipulation methodology known as GROWING PLANTS PYRAPONIMETRICALLY, the marijuana plant was used because of its unique properties.

The PHOTOTRON was designed to: (1) GROW 6 PLANTS THREE FEET TALL IN 45 DAYS; (2) Duplicate exactly the quality of the plant material the seed came from; (3) RE-FLOWER AND RE-BUD PLANT MATERIAL EVERY 45 DAYS UP TO 9 TIMES PER YEAR; (4) NEVER KILLING THE PLANTS, YEAR AFTER YEAR; (5) BE REMOVED FROM EVERY DAY. (The system is designed for plant removal, not containment); and (6) To produce 6-8 ounces of plant material every 45 days.

Growing Plants Pyraponimetrically will revolutionize indoor plant production as we know it today. At PYRAPONIC LABORATORIES, over 75 PHOTOTRONS are used for new experiments. To date, PYRAPONIC LABORATORIES have successfully catalogued 17 varieties of flowering plants, 14 varieties of fruits and vegetables, 8 varieties of tobacco and will force flower roses 365 days per year.

PHOTOTRON

IF YOU ROLL YOUR OWN, GROW YOUR OWN WITH STATE OF THE ART HORTICULTURAL TECHNOLOGY

My name is Jeffery DeMarco, president and founder of Pyraponic Industries. My master's thesis concerned the cannabinoid profile of marijuana. The knowledge gained through this research and experimentation can now be applied to the growing of any herbaceous plant from mint and basil, to roses and tobacco.

In pursuit of this master's thesis, I first had to generate the world's most extensive, nonacademic library on the subject. Second, I assembled the most extensive, scientific bibliography ever created. Then, I went into the laboratory at a major university while under federal license, and designed the most sophisticated laboratory grade growing chamber in the world called the PHOTOTRON and the methodology "Growing Plants Pyraponometrically".

The Phototron is not presented to the public as a piece of paraphernalia intended for the unlawful production of marijuana. The system was designed to grow any plant. The private cultivation of marijuana has been illegal under numerous state and federal laws since 1936. Marijuana can only be grown legally with a federal license. I worked under such a license at the time I was engaged in my research. Pyraponic Industries will never knowingly sell products to anyone expressing the intent to produce illicit substances.

If you were to research indoor plant growing techniques, as I did, a similarity soon becomes apparent. Every system before the Phototron has attempted to duplicate a tropical climate, such as Hawaii's. In a confined area. I suggest that when you finally achieve the re-creation of Hawaii, you can do no better than Hawaii's results.

In fact you will grow the plant six (6) to nine (9) months with an average six (6) inch internodal length, (the distance between fruiting sites). That will produce a fruiting ratio at the tops of the plant equal to only ten percent (10%). Ninety percent (90%) of the plant material is unusable and the plants are killed off after harvest in preparation for planting the next crop.

Number one, the only thing I am waiting nine (9) months for is a baby. Number two, I don't want a tree growing in my home. Number three, I am not going to pay the electric bill to artificially reproduce the sun. That is why I made my system so revolutionary. The Phototron measures only 36 inches tall by 18 inches wide. Its potential is deceptively masked by the simplicity of functional design and compact size.

On average, the Phototron draws only \$4.00 per month in electricity. I guarantee you will grow six (6) plants, three (3) feet tall in forty-five (45) days, while maintaining a one (1) inch internodal length. I guarantee that in your Phototron each of your six plants will produce over one thousand (1000) fruiting sites from top to bottom. Mine is the only system in the world which will allow you to reflower and refruit the same plants every forty-five (45) days. You will remove from the system every day. Beginning on DAY 20 after seed germination an average of six (6) to eight (8) ounces of plant material, such as tobacco can be harvested every forty-five days.

Please, do not allow the technical sounding nature of the Phototron scare you away. I personally service back and guarantee each unit sold. The instructions are clear and simple; the system comes to you complete. All you must do is select your seeds, plug in the system and water it routinely. Then, if you have any questions, you may call me directly. Ask your question. Get your answer.

You can not fail with my Phototron. I do not allow any of my Phototrons to fail below showcase. I personally have guaranteed every Phototron ever sold and I have never had one returned, ever, and I'm not starting now.

Call me at 1-312-544-BUDS. If you do not learn more about plant production than you have ever learned before, I will pay you for the call. Can you afford not to call?

Jeffery Julian DeMarco

PHOTOTRON	NONE	12	YES	YES	YES	YES	YES	YES	YES	YES
HALIDE SYSTEMS	50%	1	NO	NO	NO	NO	NO	NO	NO	NO
LIGHT	LEAF SHADING									
	LINEAR FEET OF LIGHT									
	SPECTRUM ADJUSTABILITY									
NUTRIENTS	COMPUTER DESIGNED FOR EACH SYSTEM									
	COMPUTER FEMALE SEX									
	GUARANTEE THE PLANTS									
CO.	NEVER KILLS THE PLANTS									
	ONE-INCH INTERNODAL LENGTHS - 1,000 BUDDING SITES PER PLANT									
	RE-FLOWER AND RE-BUD SAME PLANTS EVERY 45 DAYS UP TO 9 TIMES PER YEAR									
SERVICE	TOTALLY SELF-SUFFICIENT TO LEAF SATURATION									
	SERVICE HOT LINE FOR QUESTIONS									

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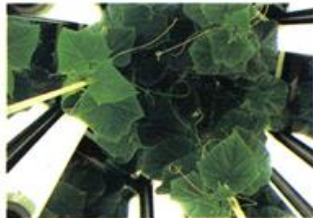
AS SEEN ON THE BBC'S
TOMORROW'S WORLD

AS ADVERTISED NATIONALLY SINCE 1979 WITH OVER 50,000 SOLD WORLDWIDE

GROWTH PATTERN OF CUCUMBERS GROWN PYRAPONIMETRICALLY



Typical testing pattern by Pyraponic Laboratories depicting the morphological differences of cucumbers grown under identical conditions except one nutrient level.



Plants nearing top of Phototron in less than 30 days.



Plants filling the Phototron in less than 45 days.



Tremendous flowering and fruiting less than an inch apart.



Normal fruit with a reduced root-to-shoot ratio.

PYRAPONIC LABORATORIES MAINTAINS: (1) The most extensive scientific literature collection in the world on PHOTOTRON accelerated plant growth. (2) A comprehensive library of Data Packages and Soil Analysis selected from over 25,000 PHOTOTRONS sold worldwide. (3) On premises, numerous PHOTOTRONS with the capacity of 3 shelves each so that up to 350 concurrent experiments may be ongoing at any one time. Jeffery Julian DeMarco, President and Founder of PYRAPONIC INDUSTRIES and PYRAPONIC LABORATORIES, maintains his PHOTOTRONS for the purpose of killing plants. It is only after experimenting with the parameters of death at PYRAPONIC LABORATORIES that the PHOTOTRON can perform so miraculously around the world. Mr. DeMarco has full-time laboratory technicians on staff and an extensive technical consulting network from Universities around the world. PYRAPONIC LABORATORIES maintains a sophisticated on-premises computerized network system for data analysis and retrieval. Thousands of experiments have been conducted and thousands more will be ongoing to expand ever further the performance of each PHOTOTRON. As PYRAPONIC LABORATORIES introduces new methods or nutrient formulations, each PHOTOTRON owner is contacted so that every PHOTOTRON is upgraded long after it has been purchased. The PHOTOTRON improves more and more the longer you own it.

GROWTH PATTERN OF TOMATOES GROWN PYRAPONIMETRICALLY



Young tomato plants in vegetative stage.



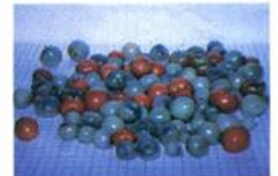
Young tomato plants beginning to flower and fruit.



Fruiting less than an inch apart.



Normal fruit development with a reduced root-to-shoot ratio.

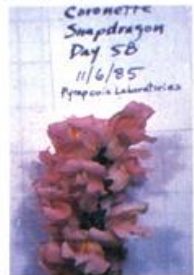


140 tomatoes harvested from 4 Phototrons in 150 days from seed germination.

SNAPDRAGONS GROWN PYRAPONIMETRICALLY



Day 46: Phototron jammed with flowering snapdragons



Day 58: Flower with reduced root-to-shoot ratio.

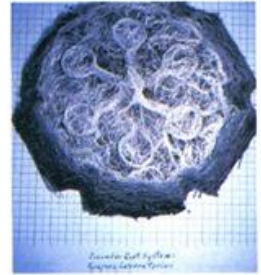
GROWTH PATTERNS OF ROOT SYSTEMS



Complete root system on the stem structures of flowering marigolds.



Pattern depicting the morphological difference of root system.



Mycorrhizal inoculated root system in base of unit on day 45.

HERBS, VEGETABLES AND FLOWERS GROWN PYRAPONIMETRICALLY



Day 65: Herb garden of Parsley, Sage, Basil, Thyme and Chive



The hottest jalapa pepper grown anywhere in the world.



Corn development under high light intensity of Phototron.



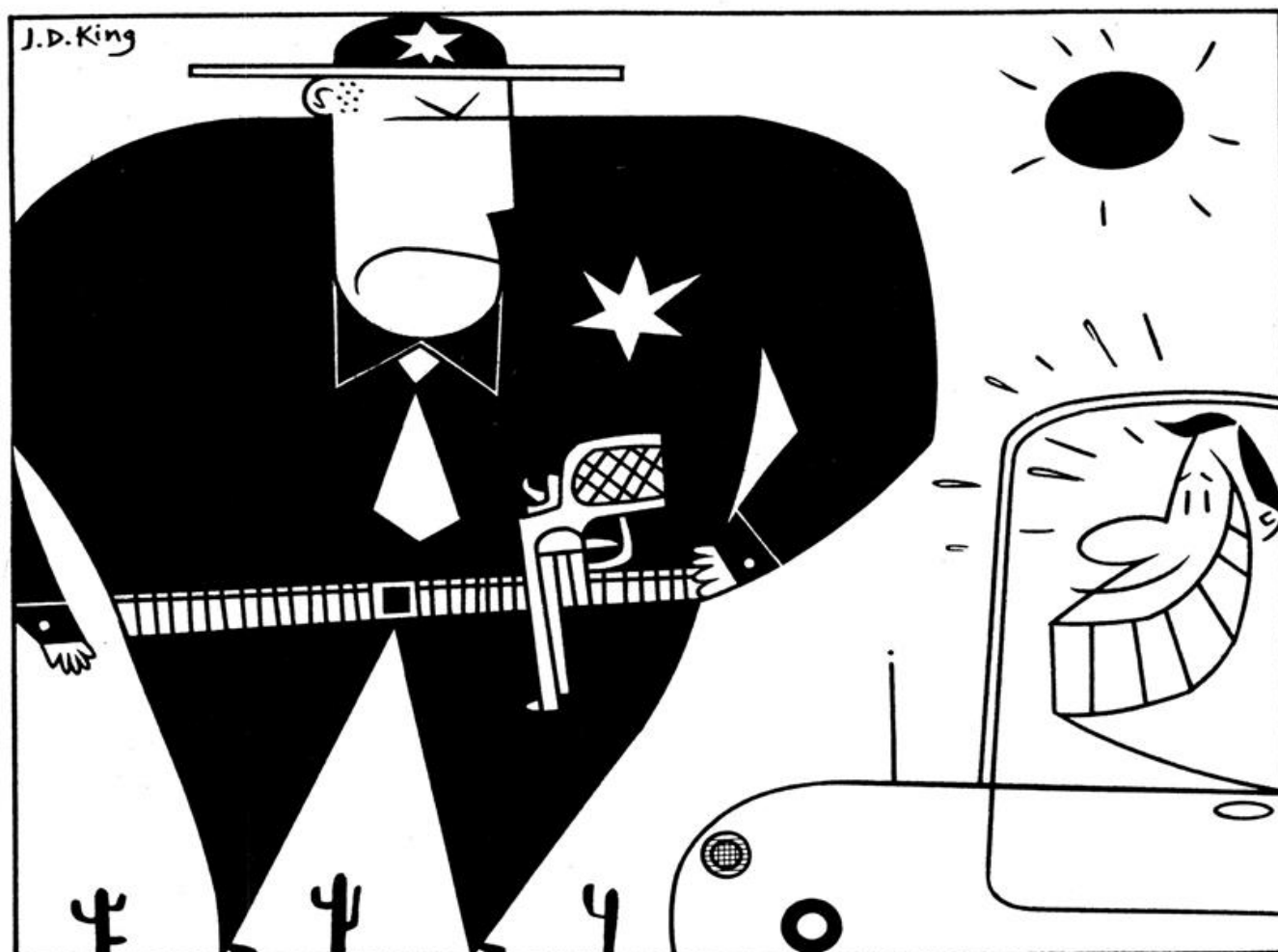
Normal salvia still flower after more than 1 year old.



Normal marigold size produced with reduced root-to-shoot ratio.

OCT. '88 HIGHWITNESS NEWS

A NEW DRUG COURIER PROFILE REVEALED



by Ed Rosenthal

As a result of motions filed in a New Mexico drug case by Albuquerque lawyer Nancy Hollander, a new film entitled *Operation Pipeline*, produced by the Drug Enforcement Administration (DEA) and the New Mexico State Police has been exposed. It was funded by EPIC, the El Paso Intelligence Center, an umbrella group comprising such drug-war participants as the DEA, FBI, INS, Customs, Federal Aviation Administration, Coast Guard, and the Bureau of Alcohol, Tobacco, and Firearms.

According to Hollander, though the film focuses on cocaine cases in New Mexico, it is used throughout the country to train highway patrolmen. In a 52-day period, the film reports, the police noticed these tendencies:

1. Most of the cars were driving west-bound.
2. Many of the suspects were Colombian. This means that anyone not noticeably white may be suspect.
3. The cars were not registered to the drivers.
4. The cars smelled from deodorizer.
5. The suspects "readily" consented to search.
6. The drivers admitted they were paid to drive the cars.
7. The suspects claimed no knowledge of the cocaine in the cars.
8. The drivers were told to leave the vehicles in Los Angeles or Las Vegas and to call a beeper number.
9. The cars had recently been registered in New York, Florida, California, or Nevada.
10. Most of the drivers were from Miami, Florida.

11. The cocaine was found in false compartments in various parts of the cars.

Hollander reports that the film's narrator stressed that the officers should "look beyond the citation." (Meaning look for evidence of illegalities other than what the vehicle was stopped for.)

The film's most important section, according to Hollander, is "the stop." "The film says that no matter what you have heard about profiles, pretext stops are not legal. You must have a violation of the motor vehicle code in order to stop a vehicle. This statement shows that the authors of the film do not understand the concept of the pretext stop. A pretext stop presumes that the officer had a legitimate reason to stop the car but would not have stopped the car but for his desire to search for drugs."

After the "legal" stop, the film advises
continued on page 77

News Update...

Lehder Gets Life

Carlos Lehder Rivas, the so-called Colombian cocaine kingpin convicted last May of importing 3.3 tons of nose powder into the US, was sentenced in July to a maximum term of life without parole plus 135 years by Florida judge Howell W. Melton. Prosecutor Robert Merkle portrayed Lehder as the flamboyantly loony czar of the media-famed Medellín Cartel (said to also include Pablo Escobar and Jorge Ochoa), which Merkle asserted was responsible for 80% of all the coke smuggled into the US (I guess Ollie North handled the remaining 20%, eh?). The dramatic five-month trial saw such frivolities as a cart heaped with 126 kilos of cocaine rolled into the courtroom as a visual aid, and the defendant's assertion that the prosecutor was blackmailing the judge (dismissed as information coming from a prison inmate with "a history of mental problems" who's made such wild claims before), but didn't, unfortunately, see resolutions to such questions as Lehder's business links to Panama's Gen. Noriega, Bahamian Prime Minister Sir Lynden O. Pindling, or a certain off-the-shelf covert-community Enterprise. Judge Melton called his stiff sentencing "a message to our society that it will do everything it can to rid itself of this cancer." (For more Lehder background info, consult Highwitness News, May '87.)

Christic to Enterprise...

And speaking of that certain off-the-shelf covert-community Enterprise, The Christic Institute's lawsuit alleging a grand design of guns-and-drugs business going back to Southeast Asia in the early '60s was thrown out of a Miami court in late June by US District Court Judge James Lawrence King. The judge said that the civil suit filed by the Institute against 29 individuals (including such shadow-world badguys as Jorge Ochoa, retired Gen. Richard Secord, Iran-Contra weasel Albert Hakim, ex-CIA spooks Ted Shackley and Tom Clines, World Anti-Communist League agitator Gen. John Singlaub, a couple of Contras, and a host of assorted other right-wing sleazebags), failed to deliver any substantial proof of their claim that these rogue "patriots" had conspired to smuggle drugs and arm various rebel groups (while, not coincidentally, enriching themselves in the process). The Institute says it will appeal the toss-out.

Loop Closed

An Ocean County, New Jersey, grand jury has refused to indict the two state troopers who shot and killed 25-year-old

Ronald C. Loop, Jr. last March 12 (see "Spring Is Busting Out All Over..." Highwitness News, August '88). The troopers claimed that Loop had driven his pickup directly at them while they were attempting to apprehend him for receiving a 10-pound Federal Express package of marijuana. Loop was shot three times in the back and side (driving at you, you say?).

—LS

Yo Newsboys!

Help make our lazy-ass news staff look good—just send us any pertinent clip from your local paper, and we can pretend we tumbled onto it ourselves! Drop 'em in the box addressed to: The Highwitness Newsboy Legion, HIGH TIMES, 211 East 43rd Street, New York City 10017. Do your bit to employ the handicapped.

A FIELD GUIDE TO NORTH AMERICAN CONSERVATIVES

BY JOE BARTOS



The Egocentric Baby Boomer

consumeris narcissicum

The Baby Boomer is an important newcomer to the right-wing ecosystem. By gentrifying run-down neighborhoods, it drives out artists, poor minorities, and other annoying liberal pests. Then the Baby Boomer settles down to a life of conspicuous consumption, filling its nests with pocket-sized cappuccino makers, inflatable home exercise units, and other gadgets.

The mating cycle takes place in fern bars, where young urban professionals sip white wine while displaying their designer plumage and discussing their latest investments. When they aren't pursuing sex or consumer objects, Egocentric Baby Boomers are usually engaged in shallow New Age self-enhancement gimmicks that fill the holes where their souls should be.

ONE MAN'S DOPE

PISSING AGAINST AN ILL WIND

by Dean Latimer

"A lot of them didn't know they were doing anything wrong," a federal investigator told a *New York Times* reporter, when asked how it was so easy to get tapes of crooked Defense Department consultants incriminating themselves over open telephone lines. "These people never expected that anyone could be listening. They didn't see themselves as dopers; they considered themselves businessmen."

"Dopers." Yeah, that's the term used by the feds conducting Operation III Wind, to refer to DoD consultants who sell verboten "privileged" information—industrial dope—to private contracting firms for big bundles of illegal bribe boodle. Although the FBI and Naval Investigations snoops, who carried out III Wind between 1986 and this summer, haven't so far exposed any malfeasance relating directly to the dope trade, the process of gathering incriminating dirt on all these greedy scumbuckets was obviously as easy and satisfying as running any routine narcotics investigation. "It was a one-shot deal," one fed recalled of a typical III Wind operation, "almost like a deal where you go out with a narcotics buy and make an arrest."

Applying this sort of narco-squad terminology to a classic investigation of colossal defense industry corruption is extremely apt right now. Just last spring, in what was (let us pray) the climactic spasm in a long drawn-out rapture of collective antidope hysteria in our '80s, Congress enacted a clutch of passionate legislation forcibly ordering the DoD to involve itself in the dope trade, whether they wanted to get involved or not. The antidope millenarians in government had had enough of the Pentagon's inexplicable pussyfooting when it came to the War on Drugs. Congress had abolished *posse comitatus* years ago, openly inviting the DoD to unleash all its myrmidons on noncombatant civilians for the first time since Reconstruction; and the Administration had bullied every civilian law enforcement agency from the Coast Guard to the FBI into accepting any "assistance" the Pentagon might feel lief to impose on them. But still the damned Pentagon *wouldn't*, for imponderable reasons, snatch at this opportunity to plant a soldier with an M-16 on every urban street corner, and finally show all of us spoiled, smug, self-satisfied Americans what it's like to live in just about every other country in

the modern world. So now in the spring of '88, at the advent of a dope-obsessed presidential campaign season, Congress resolved that if the Pentagon had to be *whipped* to the enterprise, so be it.

And at precisely the same time, providentially, Operation III Wind blew into the front pages, showing us all something supremely instructive. In the Pentagon itself all these years, the very belly of the Beast, there's been a steady procession of venal crumb-bums prepared to break the law for money, and do it every single day as part of their jobs, and who never even apprehended that what they were doing was wrong. Look how *efficient* it all was, anyhow! These Pentagon guys would take money away from Unisys for slipping them classified technical data from McDonnell-Douglas, and then soak Douglas for high-tech data from Unisys' secret DoD files, and so everything was better all around for everyone. The DoD procurement budget benefited directly in the short term, because once each of these companies had been illegally apprised of its competitors' lowest bids to take on a given Pentagon contract, they could always figure out ways to do it even *cheaper*, and accordingly put in an even lower bid; and we all benefited in the long run, because once all these competing companies were illegally apprised of all their competitors' privileged technical data, why, the general pace of technological advancement in American industry must have accelerated at least a hundredfold. So simple! So lovely! To these Pentagon procurement clerks, and to the civilian DoD consultant, who middlemanned the graft between them and the big corporations, it was all obviously so splendidly *practical* that hell, all this criminally-untaxable bribe money they were making from it was nothing less than their rightful portion. Legal, schmeagle: it would have been dishonorably *stupid* for them *not* to take the money, and let someone *else* take it, *right*?

When the III Wind defendants begin explaining themselves, their motives, and the world they inhabit, to congressional committees and McNeil-Lehrer and federal juries, this is exactly what you'll hear: they didn't know it was wrong then and they still don't think it is wrong now, because they could see a little *further* than the written law (remember Fawn Hall?), and in that illuminated perspective it was absolutely right.

CASE IN POINT

Now, if all these Pentagon consultants were prepared to break the law for the mere scores of thousands of



dollars these private corporations could lavish on them, how can anyone expect them to stand fast against the *millions* which dope traffickers like Pablo Escobar can afford to fling around? If they can rationalize their graft as patriotic for mere pennies, what rationalizations won't they come up with for *pounds*? And whenever matters of narcotics are involved, people of this nature are always capable of justifying their obscene behavior by twists of reasoning that an ordinary person, unexposed to temptations of this magnitude, would consider absolutely insane.

When the first Byzantine convolutions of Operation III Wind began to unfold in the papers, I wistfully began scanning them for mention of a particular government consultant in California named Ted Schramm, and for a North Carolina contract firm called Compu-Chem. So far they haven't cropped up, which might well be a sign that neither is culpable in the slightest indictable misdemeanor. So since I'm no longer in the investigative-journalism dodge anyhow, but only a superannuated spinner of ancient dope lore, I might as well explain why they leapt together to my mind like that. It goes way back.

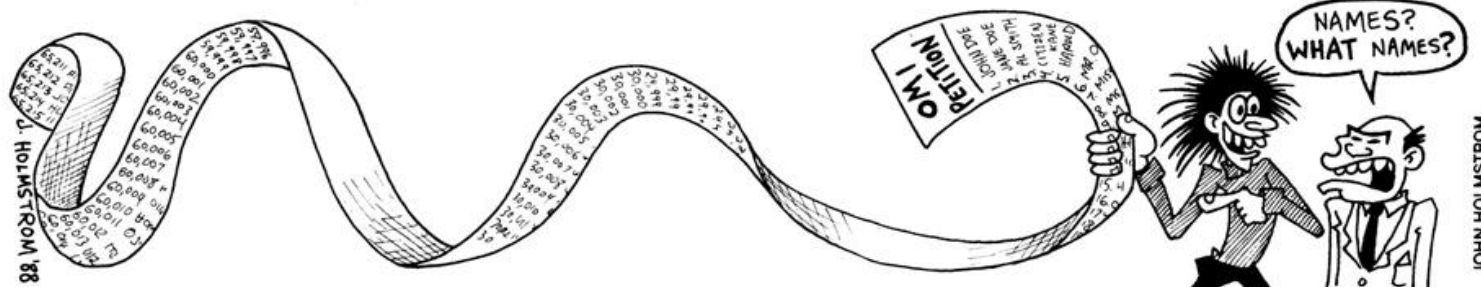
It was in the spring of 1982, in fact, a good ways back past the federal statutes of limitations, that a selection of consultants for various federal agencies and private-sector chemical companies assembled one day in a Pentagon conference room for a lively new contract bid-auction. The Department of the Navy was soliciting a single lab company that could analyze several thousand-score urine specimens every month, procured from every branch of the US Armed Services, looking through them for traces of illegal dope with a process called GC/MS, (gas chromatography with mass spectrometry).

This was an unprecedented wet-dream of a DoD contract. GC/MS is such a phenomenally expensive chemical procedure that even if the contractors cut their bid offer to *less* than the operational bone, the volume of money

continued on page 29

OMI BALLOT MEASURE DEFEATED

by Steve Hager



The Oregon Marijuana Initiative (OMI) failed to collect sufficient signatures for a ballot referendum to legalize personal use and growing of cannabis on private property in Oregon.

"We turned in 65,611 signatures," says OMI director John Sajo. "The number required to get on the ballot is 63,578. Usually, in a petition drive like this the lowest number of signatures declared invalid is around 10%, but 30% of our signatures were declared invalid."

While this represents a set-back for the cannabis reform movement, it is by no means a death blow in Oregon. The organization is currently gearing up to get on the ballot in 1990.

"Our access to votes was really limited this year," says Sajo. "We were hassled

constantly while trying to collect signatures."

OMI was not the only initiative that suffered. Several other petition drives, including an anti-nuke initiative and a property tax initiative, both of which had appeared on previous ballots, failed to collect enough signatures.

The primary reason was lack of access to the large shopping malls, especially the Fred Meyers' chain. During the final month of the signature drive, dozens of petitioners were arrested as soon as they set foot on the malls. Sajo himself was arrested twice.

"The petition process is in a lot of trouble here in Oregon," says Sajo. "In 1990, we'll also be petitioning for the right to collect signatures on privately-owned

places that the public is invited to [use]. In the past, petitioning always took place in the downtown shopping areas. However, the creation of the shopping malls has made it difficult to approach the public without crossing onto private land. The people that own the shopping centers don't want to allow any political activity. This is becoming an extremely important issue here. The grassroots organizations have been shut out and the democratic process is suffering greatly. However, we have until July 1990 to prepare for the next election, and we're confident we can get on the ballot. The feeling here is that we're getting stronger every year."

OMI needs your support. Send contributions to **OMI, 2535 S.E. Belmont, Portland, OR 97207.** ●

DOPING OUT THE VP CANDIDATES

by Dean Latimer

Counterculture voters customarily approach national elections in a state of acute indecision, since customarily neither national political party has very much of a positive nature to offer the counterculture, and both parties typically are especially negative in matters pertaining to drugs in general and drug-taking in particular. In the election slated for next month, however, there is one signal difference between the voting records of the vice presidential candidates which might assist counterculture voters in making up their minds.

Both Republican Senator Dan Quayle of Indiana and Democratic Senator Lloyd Bentsen of Texas have advocated ferocious antidrug legislation over the years, of course. Both have initiated or supported legislation to involve the US military in drug interdiction, the erection of new prisons to incarcerate drug offenders, federal support for marijuana eradication on government property, the imposition of drug-urinalysis testing on public employees, and numerous other vigorous but so far wholly futile antidrug initiatives.

In 1979, Senator Bentsen, however, actually authored, sponsored, and en-

acted one particular piece of legislation which authorities in the drug field agree had an immediate and conspicuous impact on the national drug problem. This involved putting a chemical called piperidine, the prime ingredient in the manufacture of the drug PCP (phencyclidine, or "Angel Dust") on Schedule One of the DEA list of controlled substances. Prior to that time, clandestine bathtub chemists had been able to synthesize PCP literally in their kitchen sinks, with the result that the drug was widely peddled by unscrupulous street dealers to youngsters, as well as by unscrupulous dealers misrepresenting PCP as something else: "THC" most often, or as "marijuana", whenever they'd spray some parsley or oregano with PCP, and hope the user would think it was merely bad marijuana. Since PCP is a terrifically disorienting anesthetic drug, promoting hallucinations and convulsions in large doses, its virtual disappearance from the street burn-artist's pharmacopoeia after 1979 was deeply appreciated by legions of marijuana consumers, most of whom were unaware that they had Sen. Lloyd Bentsen—a solidly right-wing, antidrug ideologue—to thank for it.

As for Sen. Quayle, cocaine consumers might be equally grateful to the Illinois senator for a historic introduction that occurred in his very own Washington office in the early spring of 1983. It was then, recalls celebrated Contra benefactor John Hull, that he came up from his ranch in

Costa Rica to Washington, DC, to lobby for aid to the Nicaraguan contras and wound up in Sen. Quayle's office. Hull maintains that he visited Quayle simply because, since he was raised in Indiana, it was only natural for him to lobby with an Indiana senator. In any case, Hull discovered on Quayle's staff an extremely helpful young legislative aide named Robert Owen, charged by Quayle with handling "Southeast Asian and Central American affairs." Within weeks of their introduction, as Owen testified in 1987 before the Iran-Contra committees, he was inspecting the Contra-resupply operations at Hull's Costa Rica *finca* and elsewhere throughout the region, taking note of all the cocaine smuggling that was transpiring there. And with the continuous assistance of Hull, Owen, and numerous other patriotic associates of Sen. Quayle, the Contras over the next few years ran long tons of the finest cocaine the Medellin Cartel had to offer into the US, as a matter of abundant court and congressional testimony. After Quayle was nominated to run with George Bush last summer, John Hull told *Newsday*: "I think Dan Quayle and Rob Owen are two of the finest people on the face of the earth."

Counterculture voters therefore actually have a clear choice between the Republicans and the Democrats, for a change, going into next month's elections. "I know as much," guarantees Dan Quayle, "about national security as anybody, with few exceptions." ●

Running for President? This Bud's For You!

In July I went to the Budweiser Superfest at Robert F. Kennedy Memorial Stadium in Washington to see Stevie Wonder, Earth Wind & Fire, Freddie Jackson, the Deele, and other performers. It was one of the hottest days in July, so Budweiser advertised the festival as being "ice cold." Other ironies abounded, and a few obvious lessons.

Of course, Budweiser was all over the place. There was an inflatable can of Bud over the stadium entrance. There was a giant inflatable bottle of Bud next to the stage. Yet for all this pro-alcohol promotion, I didn't see a single drunk or disorderly person.

I smelled a lot of reefer, though—not quite as much as I have at a Grateful Dead or Pink Floyd concert, but enough to notice it off and on throughout the day as I wandered around the stadium. When I was finishing a joint of my own, a security guard approached me and told me to "put that stuff out." I did, and told the man if I had known he was on duty behind me I wouldn't have lit up in his face, that I realized he had a job to do. After that, I sat staring at the giant Budweiser bottle, shaking my head at the absurdity of what had just happened.

Later on, Stevie Wonder commented on drug abuse with an anti-crack message. He said the important thing was for everyone to realize that God is the ultimate high, not crack and other drugs, and that we have to show love, encouragement, and opportunity to people who have drug problems.

We must educate the reigning cultural majority of the United States to distinguish between drug use and drug abuse. Vengeance is no excuse for a health policy. The current pro-war political debate is exclusively over the tactics of vengeance. Our politicians have forgotten about love, encouragement, and opportunity.



FLICK FORD

George Bush would like us to elect him as our president by promising to victimize drug users in order to save our country from itself. I'd like to comment on the specifics of his program, but the tough-sounding Mr. Bush is not very specific. Since he has, supposedly, been in charge of much of the Reagan Drug War, more of the same can be expected from the Bush Drug War. Judging from the Reagan administration's years and the effect its policies have had on the drug markets—if you want to keep drug prices and profits high, vote for George Bush.

Michael Dukakis also promises toughness on the drug issue. His claim is that

he'll be a better manager than Bush has been, and he is probably right. Like Bush, Dukakis would appoint a drug czar. (Does anyone remember who our energy czar was?) The Democrats, stung by the permissive label pinned on them by the Republicans, see the drug issue as a golden opportunity to establish their toughness.

The Democrats view marijuana much the same way as the security guard at Superfest—please, not on my watch. Notably absent from Dukakis' position papers is support for "Zero Tolerance" and "Getting tough on the user" rhetoric. If you want a slightly more sensible, problem-solving approach, vote for Michael Dukakis.

Yet Dukakis refuses to make a choice between repression and reform, and this is the juncture our country stands at.

The Democrats want to play it safe, and win. But no one wins by playing it safe. The "please, keep it out of sight" approach to drug use and abuse is, in fact, the root of drug abuse problems in America. The great strides we've made in coming to terms with alcoholism have been made by peeling away the layers of denial our culture has used to insulate itself from taking responsibility for problem drinking. We have educated the reigning cultural majority that our turning away from alcoholism enables alcoholics to turn away from facing their problems.

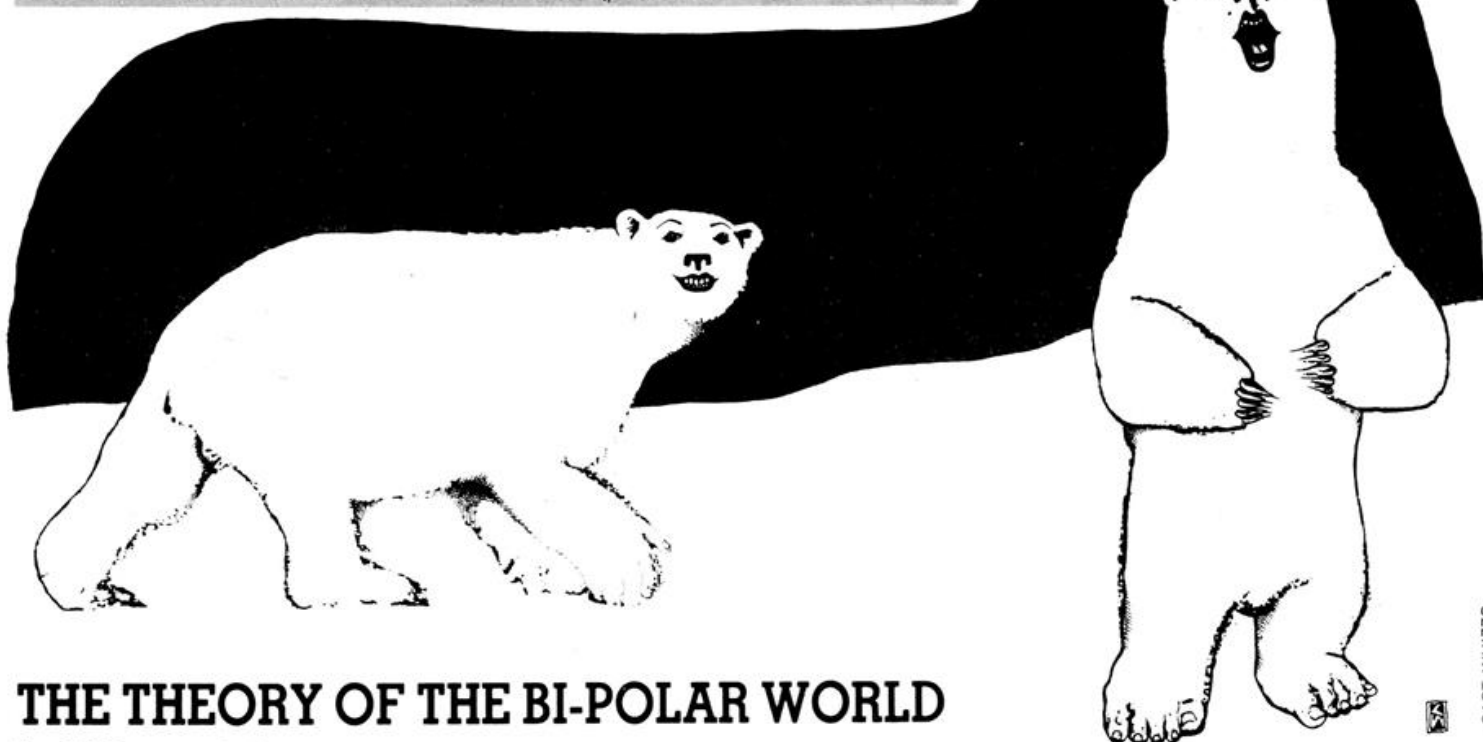
We must learn from our successes, and we must treat other drugs the same way we treat alcohol. This doesn't mean legalizing cocaine and heroin, but it does mean distinguishing between use and abuse, and an end to stigmatizing drug users. Prohibition is a refusal to acknowledge reality, a refusal to accept responsibility and exercise it.

The "drug problem" is really a problem with the morality of our politicians. They seek to advance their own careers by pursuing unachievable objectives with policies that are proven failures. We need, instead, to pursue achievable objectives with policies based on successful models.

Using this standard, only Ron Paul, the Libertarian Party candidate, seems to have learned anything from our past. Mr. Paul thinks all drugs should be legalized. If you want the public to know you support a radical change, vote for Ron Paul.

continued on page 30

THE UNITED STATES: OUTLAW NATION



CAPT. WHIZZO

THE THEORY OF THE BI-POLAR WORLD

by Ed Rosenthal

At the end of WWII, American foreign policy was based on the theory of the bi-polar world. Cold war analysts theorized that the entire world could be divided into two hostile groups—allies of the US or the Soviet Union. Policy makers in the US saw no room for neutrality. Reagan claims that the struggle against the other side—the "Evil Empire"—is still being fought in military battlefields in Central America, southern Africa, and other remote areas.

The bi-polar theory was a simplification of George Orwell's tri-polar world, vividly described in his book, 1984. In this utopia there were three superpowers, all in the northern hemisphere. One superpower included western Europe and North America, another included the Soviet countries, and a third was based on the Japanese vision of "Greater Asia" which they attempted to put together during WWII. In Orwell's novel this was composed of China, Japan, Indochina, and the Pacific rim countries.

For 20 years hard line analysts did not distinguish differences in the governments of Communist countries. They did not understand that China's self-interest differed from the Soviet Union's, or that Communist North Korea had a still different perspective. Instead, they saw all Communist countries molded into a disciplined bloc. Of course, they were wrong.

In the early '80s far-right theorists developed a revisionist bi-polar theory. Yes,

they conceded now, there was some independence in the Soviet bloc, and China was not an ally of the Soviet Union. China, they said, had the potential to be a superpower, but at present it was only an underdeveloped country which could defend itself, and probably would not become adventurist in the foreseeable future. Proof of that, they said, was that it had no allies on its borders. The Communist countries in Indochina were (and still are) Vietnam (allied to the Soviet Union), and Cambodia and Laos (which have governments dependent on the Vietnamese). That left the Soviet Union to contend with. *Voila!*: The revised bi-polar theory.

Then some right-wing theorists came up with a new bright idea. They had noticed that the Soviet bloc and NATO bloc countries spent roughly the same amount on arms and armies. However, the NATO countries have a much larger economic base. As a percentage of the economy, it costs the Soviets more to maintain an army than it does the West.

To really mess up the enemy they said, let's increase military spending as a percentage of the economy. No big wars, just research on armaments. The Soviets would have to match the increases, and trying to keep up with our accelerated research would hurt them a lot more than it would hurt us.

Also, let's make friends with China, which the analysts had by now agreed was hostile to the USSR. This would give the Soviets a stronger hostile neighbor on its eastern border. Different theory,

same approach.

Reagan bought the idea, and started to increase spending as a percentage of the Gross National Product (GNP)¹ during the first years of his administration. The growing federal deficit eventually stopped these increases.

All of these theories have flaws obvious to any observant person. They do not take nationalism or the self-interest of other countries into account. The US's allies think of themselves first as English or French or Dutch, then as Europeans, and then as US allies. That is how the people of every country feel, including citizens of the Soviet bloc nations. Their self-interest comes first. One US ally—New Zealand—said "no thanks" to nuclear weapons in its territory. New Zealanders took that position because they believed it was in their self interest.

An imperialist state can hold nationalism or peoplehood in check with force. But as soon as a weak spot develops, nationalistic passions come to the surface. Recent examples are the Armenians, Palestinians, and Poles. As soon as the Soviet Union loosened its military grip on the other "People's Republics" under its control, their differences began to explode.

The bi-polar theory has wreaked havoc on the US economy. The huge increases in military spending have caused the astronomical federal deficit, higher real interest rates, and a lack of funds for

¹The Gross National Product is the total gross revenue of a nation's economy, including all goods and services.

civilian programs as well as industrial research and development.

In 1956 President Dwight Eisenhower started US support for the South Vietnamese dictatorship. Eventually the US dropped billions of dollars on the war.² While the war was going on, some opponents claimed that it was stealing money from key areas of our technology-based economy. Research, development, education, and plant renewal were starved as tax dollars were spent on a hopeless war. Opposition economists warned that the economy would not really feel the crunch until fifteen or twenty years down the road. How right they were.

The Japanese spend a fraction of what the US does on its military (they are forbidden to spend more under the terms of the WWII surrender agreement). Instead, they use their surplus funds for research and development, gearing things to applied technology and development of consumer goods. We see their payoff every day—in almost every area of technological advance and manufacturing the Japanese and other Asian countries are outpacing the US and Europe. In the past five years the Japanese have shifted some of their efforts to basic research, formerly the US's forte. The other western country with limited military expenditures—West Germany—also has an economy outpacing the rest of the bloc.

The real threat to the US is not an invasion of its territory or western Europe's by the USSR, but of the US becoming technologically second-rate. For the past 100 years the US has been pulled by the engine of invention. If this sputters, the US can look forward to a declining position in the world, no matter how large its expeditionary forces.

As compared to the US, the Soviet Union occupies a much less strategic position. Its western, southern, and eastern borders face hostile neighbors, and it has no warm-water ports (those which remain open through winter). Yet Gorbachev, the Soviet leader, sees economic stagnation caused by the drain of military expenditures as more of a threat than having a less powerful army. He has said quite bluntly that unless they can devote more money to non-military technology, they will be left behind.

Reagan's dealings with Gorbachev are a recognition of the fact that there are more than two orbits in the world. They have taken a message handed to them by the Iran-Iraq war. Here are two countries which could be rich and powerful from oil income, but instead they squander their wealth and people on fruitless campaigns which produce only deaths. As the two belligerents lose their economic power, they become irrelevant internationally.

NEXT: The Biological Imperative, or Can Russia Invade Europe? ●

²The US will continue to spend money on the Vietnamese War until the last disabled child of a Vietnam veteran dies. Statisticians believe that there are still a few children of Civil War veterans who receive benefits.

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Anchorage, AK

Uncle Billy's Posy
"paralyzing body high;
one hit does the job!"

\$200 oz; \$600-650 1/4-lb.

Big Bud "good smell
and taste; nice high,"

\$200 oz; \$650 1/4-lb.

California Orange

"smells good!" **\$190-200 oz; \$600-650 1/4-lb.**

Jamaican "skunky,
coffee smell; tastes
good," **\$200 oz;**

\$650 1/4-lb.

Durban hash (Durban
poison x Hash Plant)

"lime green buds;
smells like cat piss;
stone," **\$65 1/4-oz;**

\$200 oz; \$650 1/4-lb.

Thai weed "some
seeds" **\$1800 1 lb**

blocks.

Commercial dirt weed
"seeds; more seeds,"

\$45-50 1/4-oz; \$150 oz;

\$400-450 1/4-lb.

LSD: green emerald,
blue diamond "green
is the better buy," **\$5**

a hit; **\$150 a sheet.**

Mexican "mostly
cheap dirtweed," **\$20**

1/8-oz; \$35-45 1/4-oz;

\$160-180 oz; \$250-350 1/4-lb.

Pepperweed "same
thing we had in the
late '60s and early '70s
continues in the '80s,"

\$25-35 1/8-oz; \$40-50

1/4-oz; \$300-400 1/4-lb.

California Emerald

Triangle "not top
notch; grown locally
from seeds from
northern California,"

\$30-35 1/8-oz; \$1600-2200 lb.

Thai sticks "big,
fat, and long," **\$65-75**

1/4-oz; \$220-240 oz;

\$600-750 1/4-lb;
\$2400-2900 lb.

Local red hair
"mostly Skunk #1 NL

5 cross," **\$35 1/8-oz;**

\$55-65 1/4-oz; \$200-

220 oz; \$600-750

1/4-lb; \$2400-2600 lb.

Anchorage and
MAT-SU Valley

thunderfuck **\$35-45**

1/8-oz; \$65-80 1/4-oz;

\$200-260 oz; \$500-

850 1/4-lb; \$2200-

3500 lb.

Hawaiian kona

\$40-45 1/8-oz; \$75-85

1/4-oz; \$200-285 oz;

\$750-900 1/4-lb;

\$3000-3600 lb.

'Shrooms "always
around; just know the
locals," **\$10 gm; \$40**

1/4-oz; \$160 oz.

Little Rock, AR

Mexican buds
"seedy; brown; ho-
hum," **\$25 1/4-oz; \$250**

1/4-lb.

Ozark Mt. buds
"moist; keep you
stoned all day long,"

\$30 1/4-oz.

Brown hash "will
spin your world;
scarce," **\$10 gm.**

Albany, CA

Chocolate Buddha
Thai **\$130 oz.**

Killer Indo/sativa
green bud **\$215 oz.**

Oregon white bud
"so crystallized it's
white!" **\$230 oz.**

Mexican "shit;
seedy bud," **\$90 oz.**

Honey hash oil **\$35**

gm.

'Shrooms **\$25 1/4-oz.**

LSD: blue blotter

"fat doses," **\$40 a**

sheet.

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Coronado, CA

Afghani/Mexican
"strong buzz," **\$110**

oz; \$900 lb.

C #40 indica "a
truly great hybrid;
grown in Escondido;
comparable to

Hawaiian," **\$160 oz;**

\$350 1/4-lb; \$1500 lb.

Colombian
rainbow weed "killer
solid sativa; beats

Mexican; all kolas,
few seeds," **\$65 oz;**

\$550 lb.

Early Pearl "early
buds; some are
Skunky," **\$135 oz.**

Hawaiian/Nigerian

"incredible high,"

\$350 oz.

LSD: purple haze

"200 mics a hit," **\$5 a**

hit; **\$110 per 100.**

Martinez, CA

Killer indoor
Skunk **\$70 1/4-oz;**

\$280 oz.

Purple death hydro

\$200 oz.

Thai "big Thai

busts recently created

bud drought," **\$25**

1/8-oz; \$160 oz.

Moscow, ID

Commercial
Mexican "can't give it

away," **\$25 1/2-oz.**

'Shrooms

"Oregon's finest; wall

melting common on
this stuff," **\$6 gm; \$20**

1/4-oz.

Southern IL

Dark green/stemmy
buds "not bad; good
buzz," **\$35 1/4-oz.**

Florence, KY

Hybrid Northern
Lights clones "very
sticky!" **\$200 oz.**

Hash Plant "I hit and

lights out; I call it the

hammer!" **\$60 1/4-oz.**

Owensboro, KY

Afghan skunk "wow!"

\$250 oz.

Red-haired sinse

"good high,"

\$50 1/4-oz.

Mexican "bullshit

weed; take aspirin;

save your money,"

\$25 1/4-oz.

B.C. "good, clean

high," **\$50 1/4-oz.**

Brooklyn Park, MD

Jamaican blocks

"expensive, but rather

tasty," **\$1850 lb.**

Bedford, MA

Commercial herb

\$45-60 1/4-oz.

Colombian gold "ultra

scarce, but gets you

retarded," **\$100 1/4-oz.**

LSD "becoming the

drug of choice; 1/2 a hit
is plenty!" **\$5 a hit.**

Greenville, NC

Brown boat weed
"good buzz when
there's nothing else

available," **\$100 oz.**

Orange hair sativa

"delicious taste; great

for the working buzz,"

\$35 1/4-oz; \$110 oz.

Local indoor

indica "put your

seatbelt on for this

buzz; not too much

around, though,"

\$65 1/4-oz.

LSD: clownface

"tremendous buzz;

Oh, God!" **\$4 a hit.**

LSD: white blotter

"the Floyd couldn't

have been better; Syd

would have

appreciated it!"

\$5 a hit.

Cocaine "rocks,

rocks, and more

rocks!" **\$80 gm; \$230**

1/8-oz.

Akron, OH

Indica skunk "fresh
from CA," **\$75 1/4-oz.**

Brown bud "some

okay; most sore-

throat smoke;

drrrrrrry! Santa Marta

it's not!" **\$25-40 1/4-oz.**

Green bud "tri-state

Mexican; little to be

had," **\$30-40 1/4-oz.**

Tri-state skunk

"okay," **\$50 1/4-oz.**

Columbus, OH

Sativa "multicolor;
has that old gold

taste; some dry and

harsh," **\$80-170 oz;**

\$1200-1800 lb.

Baby indicas "from

indoors, sexed, and

put outdoors, doing
fair; too damn dry this

year!" Skunk buds

\$80 1/4-oz; \$250 oz.

Black hash (Kabul)

"resources are all

exhausted," **\$1900 lb.**

North Olmstead, OH

Skunk bud "brain
dead!" **\$140 oz.**

LSD: white blotter

"deadly bear, good

time!" **\$4 a hit.**

'Shrooms "OK," **\$3-4**

gm.

SK #1 "indoor hydro

smoke; truly the best

around,"

\$200 oz.

G-13 Government

Strain "only if you

know the right

person; very sweet;

thank you, Uncle

Sam!" **\$300 oz.**

SK #1 x AF #1 x NL #5

"this is unreal smoke;

very sweet and

sleepy," **\$250 oz.**

Poly-Pak "Mex x

Pakistan strain; very

sweet and 'up' type of

high; hang on... this

one takes you flying,"

\$225 oz.

Rud x indica "heavy

indica high; not a

personal favorite,"

\$275 oz.

Arkansas red "this

shit makes you silly,"

\$200 oz.

Big Bertha "don't

know where it comes

from, but it's not

local," **\$175 oz.**

Haze "not very much

around, but if you can

get it you won't

believe what it does

to you," **\$350 oz.**

Mexican red hair

"good," **\$25-30 1/4-oz**

TRANS - HIGH MARKET LETTERS



HAWAII

In my opinion, everyone who is eligible should register to vote and serve on juries when called. In any controlled substance proceeding, they could vote "not guilty" if their conscience thought that the law was improper (it only takes one "not guilty" vote to hang a jury). It would be rare to have 12 people who have not used a controlled substance, or whose friends or relatives do not use or profit from them (other than really old folks, religious zealots, and law enforcement officers—there are probably not many others hostile to the cause).

Also, if everyone who was arrested for any controlled substance crime were to plead "not guilty" and demand a court trial, the courts could be backed up for centuries in no time—the Constitutional right to a speedy trial could become impossible to accommodate.

So let's get rid of these laws and eliminate the "them and us" mentality with its consequent intolerances and let's get back to being Americans who just want to help the family get by, enjoy life, and help others to do the same.

—?????

Kailua-Kona, HI

MASSACHUSETTS

I'm tired of hearing people fight about which drugs are righteous. Don't people understand the old saying, "United we stand, divided we fall"? Now is the time to unite, to stand together for what we believe is fair. I am a frequent user of cannabis; I'm not into the hard drug scene, but to each his own.

Here in Boston, the weed scene is getting pretty lame. A few dealers I know

stopped selling due to problems with shipments. We used to get good Thai weed for \$35 an eighth, but now it's back to green for \$45 a quarter-ounce. Somebody please get some good smoke back to Boston!

I would also just like to say thanks for nothing to the hippie freak who sold the fake acid at the Monsters of Rock show at Sullivan Stadium. That asshole must have made a fortune screwing people. But the Ecstasy at the Pink Floyd show was incredible...

So if you ever come to Boston, bring your own acid. If you buy it here, you'll only be donating to a rip-off.

—Elvie

Boston, MA

NEW YORK STATE

I wish more people out there would grow indoors. I've pretty much given up trying to convince people of the benefits of indoor growing. As far as I'm concerned, let the peasants smoke shit.

Another thing that pisses me off is so-called friends who expect free pot. Fuck them all. I'm now rid of these leeches and my new friends don't know that I make about \$150,000 a year selling pot. And that's by servicing just *three* customers! I wonder what they would do if they found out they are financing my retirement to some unknown location. I figure that in three years I will have about half a million in the bank. Along with my straight job and a few smart investments, I will have more than enough to say goodbye to dirty, crowded New York.

—C&A

Long Island, NY

I've been tripping on various hallucinogens for about 15 years. The problem with today's LSD is that it is *not* LSD—it's some kind of analog.

In the early '70s, windowpane and blotter acid were the real deal; today I can barely compare the highs. In the mid '70s, the DEA started cracking down on chemical suppliers, thus limiting the availability of necessary ingredients to manufacture the pure drug. Therefore, ingenious chemists found comparable analog chemicals to replace them.

The high just got sillier and sillier. I hear "double-dipped" LSD comes from CA, NYC, and Toronto—who the fuck do you think is making this dope? People who care about your high? Yeah, right!

Turn to organics and burn the greed out of dope. Calm the world by calming yourself.

—Name Withheld

No postmark, NY

NORTH CAROLINA

I have grown a lot of *indica* and was one of the first in my area to try the Seed Bank. Nevil would write me letters telling me how resinous his different strains were.

When Ronald Raycunt cut financial aid again, I realized my college career was in jeopardy. My solution turned out to be quite simple. Instead of growing for personal use, I decided to grow for professors and other responsible smokers (for a price, of course). The result was that my roommate (growmate, I mean), my distributors, and I all managed to graduate college without the meager fucking financial aid the school offered or the red tape that goes along with it.

I moved from Florence to the big city to get my Ph.D. in clinical psychology, and there is no place to grow dope. My girlfriend subscribes to Nancy Dicklips' War on Drugs so I can't have a growroom... yet. I am treating my girlfriend for a particularly crippling disease called narrow-mindedness by using Afghan #1 therapy—it seems to be working.

I would like to thank HIGH TIMES for the professional grow info, the farmers whose land I planted on (if only they knew!), the Florence pigs (for busting a lady for growing a houseplant that looked vaguely like marijuana and not busting me), and this nation's politicians who had the good "sinse" to create absurd marijuana laws that make it profitable for college students to grow their way through school.

—Ex-dope Grower (but not for long)
Florence, SC

POETS!

Because of the great response to our last Poetry Corner, we've decided to highlight a selection of poetry from our readers again. Look for it next month!

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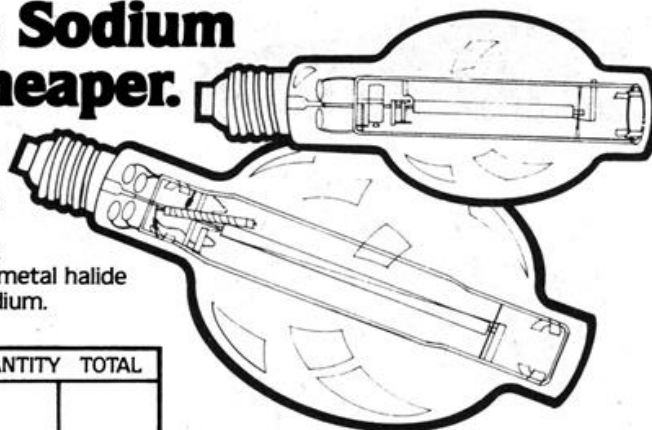
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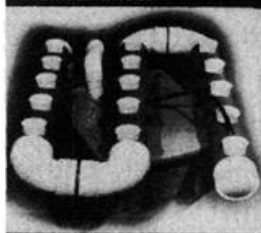
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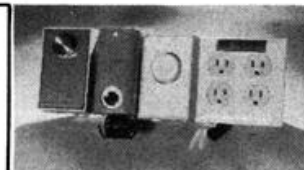
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ONE MAN'S DOPE

continued from page 21

that the DoD would still have to pay them, in enormous regular lumps, would render the company a magnet for well-heeled private investors, guaranteeing splendid long-term corporate expansion. Better yet, the point of this Pentagon piss-test project was to run courtroom-quality "confirmation" assays on servicepeople's urine specs which had already been deemed tentatively "positive" for dope by the cheap-shot mass-screening tests used in regional armed-services labs. So the lucky company that landed this piss-test confirmation contract would not be merely going into business with the DoD, but into court with them, for hundreds and hundreds of messy, protracted, endlessly expensive piss-test cases. Every time the DoD would try to cashier an individual soldier or sailor on the basis of GC/MS work done by the contract firm, they would inevitably have to call in a company chemist to give endless hours of top-dollar expert scientific court-martial testimony. So once the DoD married itself to some lucky chemistry company over this contract, the fortunate bride would be set for generations of steady mazuma from the government.

Now, of all the ugly corporate sisters that flocked hopefully to this Pentagon bid-auction in the spring of 1982, one of the least prepossessing Cinderellas imaginable was this shabby little firm called Compu-Chem, a North Carolina subsidiary of the tremendous Mead timber-and-paper combine. Set up in the '70s by Mead to monitor the environmental pollution incidental to big timbering operations, Compu-Chem had flourished a main under the Carter administration; their conduit into Carter's big-spending Environmental Protection Agency was a brilliant young Washington consultant named Ted Schramm, who, among many other things he did very well, worked for a few seasons in the White House Office on Drug Policy, helping them link up their poppy-and-pot eradication programs with the appropriate pesticide-manufacturing firms. So those were wonderful days for Mead Compu-Chem, the industrial pollution watchdog.

But this was 1982 now, and the new President—who firmly believed that trees are a major source of air pollution in North America—was no friend of companies leeching off the EPA. EPA contracts had become so skimpy, in fact, that Compu-Chem was now well in the way of becoming the prime loss-leader in the Mead corporate family. "They were scared to death over there," one of Compu-Chem's neighbors across the quad at Research Triangle Park recalled for me, much later on. "All they

had was row upon row of gas-chromatography mass-spec machines, and nothing to run through them. Then suddenly the Navy put out this humongous drug-urinalysis project . . ."

Now, just try to imagine what it would have been like for the poor scared-to-death corporate representatives of Mead Compu-Chem, on the day of that historic 1982 Pentagon bid-auction, if everything had been conducted according to the strict letter and spirit of the law. All the competing chemical companies, including the major industry leaders like Smithkline Beckman and Finnegan MAT, had submitted their lowest-possible bid estimates the day before, along with Compu-Chem, in hermetically-sealed envelopes to the Navy Department's special piss-testing consultant. In a moment, then, this omnipotent individual would announce the lowest bid received, and in the moment after that, Compu-Chem would either go into bankruptcy court, or into a grand everlasting new tomorrow that would put everyone there on the government tab for the rest of their lives, and their grandchildren's too. Just try to imagine the drama, the unspeakable tension, the stark terror of that moment, if everything had been conducted to the strict letter and spirit of the law.

In the event, the Navy's special piss-testing consultant, Ted Schramm, announced that of all the sealed bids that had been placed in his custody the day before, the lowest figure at this point in time was Mead Compu-Chem's. His own client!

And so today, more than six years later, Compu-Chem (there is no "Mead" to it any more) is the acknowledged leader of the burgeoning body fluid-monitoring and employee surveillance industry. Besides the DoD now, their piss-test portfolio includes silk-stocking Fortune 500 corporations, minor and major-league sports organizations, municipal governments, insurance agencies, police departments, prisons of all jurisdictions, detox and rehab centers, criminal-defense law firms, and entire school districts. Their expert chemists fill volumes of court transcripts every season with scientific testimony, and their new California piss-test plant puts their old Research Triangle digs to shame. As for Ted Schramm, he now runs his own Los Angeles corporate consulting firm, specializing in matters pertaining to drug abuse, its early prediction, detection, and compassionate top-dollar treatment. All this pumps so much money into the economy, why, you just have to be grateful that there is such a thing as statutes of limitations. Otherwise the III Wind investigators might be interested in a story like this. ●

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NORML-IZER

continued from page 23

Marijuana smokers face a tough choice, because this will be a close election. No doubt, the people who care solely about how much money they can make selling marijuana will vote for George Bush, because Bush is good for business. The quandary is for those who want a change, and can't decide between Dukakis (better but not ideal) and Paul (ideal but no chance of taking office).

NORML does not endorse candidates. Even if Ron Paul were to win the election, NORML would take a critical stance toward his administration, because whoever wins the election is responsible for enforcing the laws on the books, and hence will be an adversary in our ongoing debate. Please vote, no matter who you vote for. Even if you write in Bob Marley or Donald Duck your vote will count. In fact, in this close election, the marijuana vote could swing the election either way—defeating Bush by going with Dukakis, or defeating Dukakis by going with Paul and giving Bush enough to win. How you vote is your decision. Who wins is important, and for more reasons than our own interests, but voting is the most important thing.

If you don't vote, then you really don't care what your government does, and that will be interpreted as approval of the status quo. The status quo is unacceptable to me, and to most of my supporters. I plan to vote, and you should too.

Finally, the lesson of Superfest is that the answers to our national problems with drugs are all around us, if we'd just get past the rhetoric and posturing and open our eyes to the obvious.

If marijuana can be used responsibly without a threat to public safety, like alcohol, why don't we give marijuana smokers equal consideration under the law? If alcoholism is best dealt with by openness, why don't we treat other problems that way? If people with drug or other problems deserve love, encouragement, and opportunity why are our politicians falling over each other in a contest to see who can be the meanest to drug users?

Why? Because you, as a voter, have let our politicians get by without confronting these questions. So sound off, and VOTE. ●

(In addition to voting, you can make sure your voice is heard by joining NORML. Write: 2001 S Street, NW, Suite 640, Washington DC 20009; or phone (202) 483-5500.)

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Story and photographs by Peter Gorman

Scrapes with the state of Florida, the DEA and other mycologists have cost him plenty, but Peele continues to fight for his belief that mushrooms are an overlooked key in our battle against disease.



Stephen L. Peele.



Psilocybe Cubensis cultivated in home canning.

Pensacola, Florida

April 21, 1987, 8 AM. Stephen Peele, his wife Cathy and daughter Tami had already put in a full morning feeding the chickens, cats and birds and were just sitting for breakfast when the fighting cocks tethered around the perimeter of their trailer-home began to crow. Peele got up from the table and went to check the fuss: two unmarked but unmistakably official cars had just pulled into their drive.

"Hell, honey, we got company. Better take Tami and leave this to me."

It wasn't the first time official cars had come calling: the trailer also serves as home to the Florida Mycology Research Center, a company that gets its share of surveillance. Cathy and Tami already knew the routine: they gathered their food and left the room.

Peele met the strangers, two women and one man, at the door. The women were Federal DEA agents; the man was from the State of Florida's Department of Health and Rehabilitative Services. They were conducting a spot inspection of Peele's Research Center, an act allowable under the DEA guidelines for Schedule 1 drug-permit holders.

Normally the process is fairly painless: agents verify that licensees and permit-holders are manufacturing what they claim to be manufacturing, that records of distribution are in order, and that all Schedule 1 drugs are being handled in accordance with DEA guidelines.

But Peele knew something was up when the agents decided to stick around. He suddenly found himself accused of distributing a "new and unapproved drug" for human experimentation and was ordered to stop the distribution immediately or face a \$5,000 per day fine, retroactive for four years, and a jail term of up to 60 days. He was stunned and angry.

"I tried to explain that I make mushroom extractions for laboratory testing, which is *in vitro* research and which calls for no state licenses. But the state agent kept telling me I was making drugs for *in vivo* research, which involves HUMAN testing. I tried to explain the difference. I even asked those DEA gals to explain it. They just sat there and didn't say a word. And as soon as I told that son of a bitch he didn't know what in the hell he was doing,

that's when he started writing me up."

By the time Peele's wife Cathy called to see whether she and Tami could return, the Mycology Research Center was shut down.

According to the DEA agents present, the inspection was the result of a request by Peele to expand his federal permits to include both Schedule 2 and 3 drugs. According to Peele it's likely that the real reason for the inspection and shut-down was a news story carried by ABC television—Channel 3 in Pensacola—in which he had suggested that since certain mushrooms had shown promise as immune-system enhancers in the human body, some mushrooms might be helpful in the treatment of AIDS.

On June 19, 1987, two months after the initial inspection, the same state investigator, M. Gregory Jones, returned to the Center for a follow-up. This time he wrote Peele up for "operating as a drug manufacturer without a permit," among other violations.

Neither of the inspections had the drama of a bust, but as far as Peele was concerned they had a similar impact. His livelihood was cut-off; he was living under threat of fines and imprisonment; and promising programs using Peele's mushroom extractions in medical research were stopped. Worse, according to Peele, those researchers he was working with—the National Cancer Institute and the University of Arizona among them—were contacted by both the State of Florida and the DEA and told to cease working with the Florida Mycology Research Center. Peele's credibility was shot.

Five months after the initial shut-down, with the help of two lawyers and two Congressmen he had enlisted in his cause, Peele received a letter from the State of Florida exonerating him of any crime or wrongdoing. He was permitted to re-open for business.

Unfortunately his problems weren't over—shortly after receiving the State letter, Peele received a letter from the DEA requesting him to voluntarily surrender his Schedule 1 permits. He has refused to do so and thus far there has been no further action taken by the DEA. But the cloud of controversy still hangs over his operation and many of his

former research associates consider working with Peele a risky proposition.

Who is Stephen Peele and what is the Florida Mycology Research Center? Whose toes has he stepped on? Why does he continue his uphill battle against authorities apparently determined to break him?

Peele has been working with mushrooms since 1972, when he began amassing what is in all likelihood the largest spore bank in the United States, containing more than 15,000 different mushroom strains. In 1982 he founded the Independent Mushroom Growers Network, a society with members worldwide devoted to the exchange of mushroom information; in 1983 he began publishing *The Mushroom Culture*, a quarterly journal devoted to mushroom cultivation. In 1984 he applied for and received the first—and possibly only—DEA Schedule 1 permits ever given for the cultivation and distribution of psilocybes and other hallucinogenic mushrooms. He has pioneered the use of hydroponics in the cultivation of mushrooms and adapted several other growing aids to the art of mushroom cultivation, among them the use of the dual-element ion generator to prevent culture contamination. He has written articles on all phases of mushrooming for magazines and journals, including *HIGH TIMES* and he has been used as an expert witness in several legal cases.

He's managed to make a living selling his journal, spore prints, mushrooms and growing aids to mushroom enthusiasts (and recently added a two hour video on mushrooms to his line). His personal interests have evolved in the past few years to include an examination of mushrooms for their medical potential. And that interest seems to be a sore point with a number of people.

The idea itself is not new: Chinese and Japanese chemists have already discovered anti-cancer, anti-tumor, antibiotic and anti-viral activity in mushroom extractions; French scientists have been studying immune-enhancing mushrooms in their search for an AIDS inhibitor, and we're all aware of the importance of fungi-based medicines like penicillin and cyclosporin.

But, as Peele points out, very little

STEPHEN PEELE'S MUSHROOM LOBBY

In the wake of problems the Florida Mycology Research Center has had at the hands of both the State of Florida and the DEA—as well as the problems thousands of Americans suffer every year at the hands of law enforcement agencies in regards to DEA Schedule 1 hallucinogenic mushrooms—Stephen Peele has founded the Mushroom Lobby. The intent of the Mushroom Lobby is to organize mushroomers throughout the country so that their voices can be heard in Washington concerning the complex laws regarding mushrooms. “In every state in this country, with the exception of Florida, there are mushroom felony laws on the books. In California, possession of a single psilocybin spore print is now punishable by up to a year in the state penitentiary. Let’s call a spade a spade. Mushrooms are NOT narcotics.”

For more information about the Mushroom Lobby Write: The Florida Mycology Research Center
P.O. Box 8104
Pensacola,
Florida 32505

mushroom-related medical study goes on in the United States, in part due to the archaic and negative attitudes many medical people hold about mushrooms and in part due to the complex state and federal laws governing the use of “new and experimental drugs,” a tangled bureaucratic mess.

So Peele finds himself waging battles on two fronts: while he fights to get the medical community in this country to realize the potential benefits to be derived from the experimental use of mushrooms (a battle made more difficult since he’s not a member of that community), he must also fight the bureaucracy which prohibits such experimentation. And in the course of waging those wars he has found himself at odds with a large segment of the mushrooming community who think the heavy-stepping of a man who makes the bulk of his living from the sale of hallucinogenic mushroom spores will only inhibit acceptance of mushroom experimentation in the medical field.

Some mycologists think Peele is a dreamer or, worse, a charlatan looking for headlines. Others feel he is a visionary. At the very least he is the most controversial mycologist working in the United States today.

I decided to pay him a visit to see for myself.

A VISIT TO THE FLORIDA MYCOLOGY CENTER

On the flight to Pensacola I wondered about Peele. I’d never met him and only spoken with him twice by phone, but I’d read some of his articles and he seemed to know his stuff. He ought to have been living a good life, selling spores and mushrooms and taking people on walks through cow pastures. Instead he’d brought the State, the Feds and half the mushroom community down on himself. I wasn’t sure whether I was about to meet Don Quixote or a lunatic.

Peele introduced himself while I waited on a rent-a-car line. He was fortyish, grey at the temples, thin and handsome. He had a slightly haggard look around his eyes, a little beaten. But he also had an infectious smile

and a warm handshake.

“Mister Gorman, I presume?” he asked with something of a drawl.

I nodded and we said hello. He seemed in good spirits and happy that HIGH TIMES had thought enough of him to send a reporter to interview him.

I followed him in my rental car out to a motel he knew, then rode in his car to the Center. I asked him when his problems started.

“First time HIGH TIMES did an article on me. November, 1983. The day after that issue hit the stands I had four men parked in a blue compact down at the end of my driveway for three days.” He paused and lit a cigarette. “I still can’t figure out where they ate, where they slept or even where they shit, ‘cause they didn’t leave that car for a minute,” he laughed.

“That’s what you get for publishing in HIGH TIMES.”

“Hell, your readers are the most knowledgeable mushroomers in the country.”

“What about the scholarly mushroom crowd? The Mycology Society?”

“You’re shitting me now. They’re so busy patting themselves on the back for finding new strains of oyster mushrooms, they can’t begin to see what mushrooms can do.”

I could see why he’d alienated a few people.

We turned off the main road into a woody area. Through that we broke into cow pasture land. The grass was dry and browning.

“Hope you weren’t expecting to pick psilocybes. We haven’t had any rain in nearly a month.”

We turned up a long, rutted drive, passed a ramshackle one-story house and pulled up in front of a trailer. Kids’ swings, an old Mustang being cherried-out, and barbed wire covered much of the front lawn. It looked less like a research center than I’d imagined.

We stepped from the car into the blazing afternoon heat. A tethered reddish-brown rooster suddenly cocked its head at me and charged, wings flapping and legs kicking wildly, the tether stopping it before it reached me.

“You don’t want to get too close to those roosters, Mister Peter. They’ll tear your ass up.”

“You fight cocks?”

“Just a little protection.” He



Tethered guard rooster on duty.

pointed out a number of them circling the trailer, all tethered and kept just out of reach of one another. "You just try sneaking up on this trailer."

I met his wife Cathy—a pretty brunette—as we stepped into the trailer. She was off on an errand, and we had the place to ourselves for a while. The trailer itself was neat and simply furnished: photographs graced the walls; two bird cages hung from the living room ceiling; kittens scampered underfoot. Hanging across the wall above the couch were several "Special Mushroom Issues" of *HIGH TIMES*, some mushroom photographs and a beautiful *Psilocybe cubensis* spore print.

While I looked at the spore print, Peele pulled a handful of papers from a back room and put them on the kitchen table.

"Take a look at these," he said.

"What are they?"

"Well you mentioned the Mycology Society before and said the fellow you spoke with didn't have a high regard for my work. Before we start talking I just want you to understand that not everybody agrees with him."

I looked through the papers: most were from major universities and research labs. Some of them were

simple requests for mushrooms, cultures or spore prints, but others were requests for information concerning specific mushrooms and some talked of the possibility of starting research projects with Peele.

"Now when the government came in here and shut me down, all those projects were stopped cold."

"But I've got the State letter here saying you could re-open. What's holding you back?"

"When the State shuts you down they tell the people you're working with. They say you can re-open; they do not call those people back up and tell them it's okay to work with you again. Lots of these people lost confidence in me with that shutdown."

"What was it exactly that pissed them off so much?"

He walked to a refrigerator and pulled out a small tube filled with a dark liquid. It was marked *lentinan*. "This is an extraction from the shiitake mushroom, a common, ordinary mushroom used in restaurants." He pulled out a *Journal of Pharmacology* and read from an article by Gerald R. Falona on Immune Modulating Treatment for AIDS: "Lentinan is a remarkable immune enhancer, reported to be effective in the treatment of

encephalitis, herpes and some endo-viruses. Not available in the United States."

He turned back to me. "Well I decided it was time to see what *lentinan* could do. So I went through the FDA and applied for permits to distribute this extraction—and others, but all from choice, edible mushrooms—to patients with AIDS. I offered to supply the doctors of these patients—at no charge whatsoever—with these extractions. These patients would be monitored by their own doctors in this program. I am not suggesting that this would be a cure. But not only has *lentinan* been shown effective against herpes, encephalitis and so forth, the Japanese have recently discovered that *lentinan* produces an 80% remission rate in Sarcoma 180 and related cancers! And this extraction, from common mushrooms, is NOT available in the United States.

"If you have governmental agencies shutting down operations like mine, people are suffering while these clowns dick around about whether this common edible mushroom is a new investigational drug!"

I pointed out that while the idea might be sound, a mushroom researcher without university

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Identifying Psychoactive Mushrooms in the Genus "Psilocybe"



Psilocybe cubensis has golden cap and white stalk. A dark purple ring around the upper part of the stalk makes for easy ID on this mushroom. The ring is purple because of the spores collecting on it.

by Stephen L. Peele,
Curator of the Florida
Mycology Research Center
(FMRC), PO Box 8104,
Pensacola, FL 32505

Mushrooms propagate themselves by producing spores. Spores are like seeds, only very small. They are so small, you need a microscope in order to single them out. Mushroom spores also play a very important role when it comes to identifying mushrooms. Because mushrooms are separated by the color of their spores, it is very important that you learn how to take a proper spore print.

Remove the stem from the mushroom. Place the cap with its

gills down on a piece of paper. Cover the cap with a bowl, or something to stop air currents. As the spores are released from the gills they will fall down onto the paper. You will capture thousands of spores using this method. After about two hours, remove the bowl and lift the cap. You should have a picture of the gill pattern made entirely from spores. This is known as a "spore print." The color of the print will indicate what genus the mushroom belongs to.

The mushrooms in the genus *Psilocybe* all have dark purple tinted spores. Any other color indicates another genus other than *Psilocybe*. Mushrooms in the genus *Panaeolus* have jet black

spores, and mushrooms in the genus *Amanita* have white spores (use dark or black paper when checking for white spores). The genus *Amanita* holds the deadliest of all mushrooms. *Amanita phalloides* and *Amanita virosa* are examples of these killers. Although not all mushrooms which have white spores will kill you, it is best to stay away from these unless you really know what you are doing. My best rule here for the novice is "Never eat a mushroom which has white spores, and you will never eat a deadly *Amanita*." You will no doubt come across many different colors of spore prints if you start taking prints from different mushrooms you find. They can range from green, orange, brown, and other colors. Once the dark purple tinted color is noted, you must then look for other clues as to what species the mushroom is.

Besides the color, shape, and size of the mushroom, where you find the mushroom is very important when identifying the species. Say, for instance, you find a mushroom growing from decayed wood. It has a purple spore print, and you think it might be *Psilocybe cubensis*. This could not be right because *Psilocybe cubensis* grows only from composted animal dung like that from cows. So make a special note on this. Certain species of *Psilocybe* grow on specific substrates. What region you are in can also be very helpful, as you would not find *Psilocybe semilanceata* in Florida, nor would you find *Psilocybe cubensis* in Washington.

Many mushrooms in the *Psilocybe* genus, especially the psychoactive ones which contain psilocybin and psilocin, will turn color when the flesh is bruised or mashed. After several short minutes, the bruised flesh will turn blue, or a bluish green. Some species in this genus also produce other psychoactive analogs of psilocybin. They are baeocystin and norbaeocystin. *Psilocybe baeocystis* is an example of a mushroom having these analogs, and hence is one of the more potent of these type mushrooms.

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JAVA JOINTS: travels in Indonesia

Story and photographs by John Mood



In Java a "nickel bag" of betel nut costs 5 cents. Shown here is one such bag, with a joint already rolled. The commercial cigarettes contain clove. Produced in Indonesia, you can smell them all over the islands.

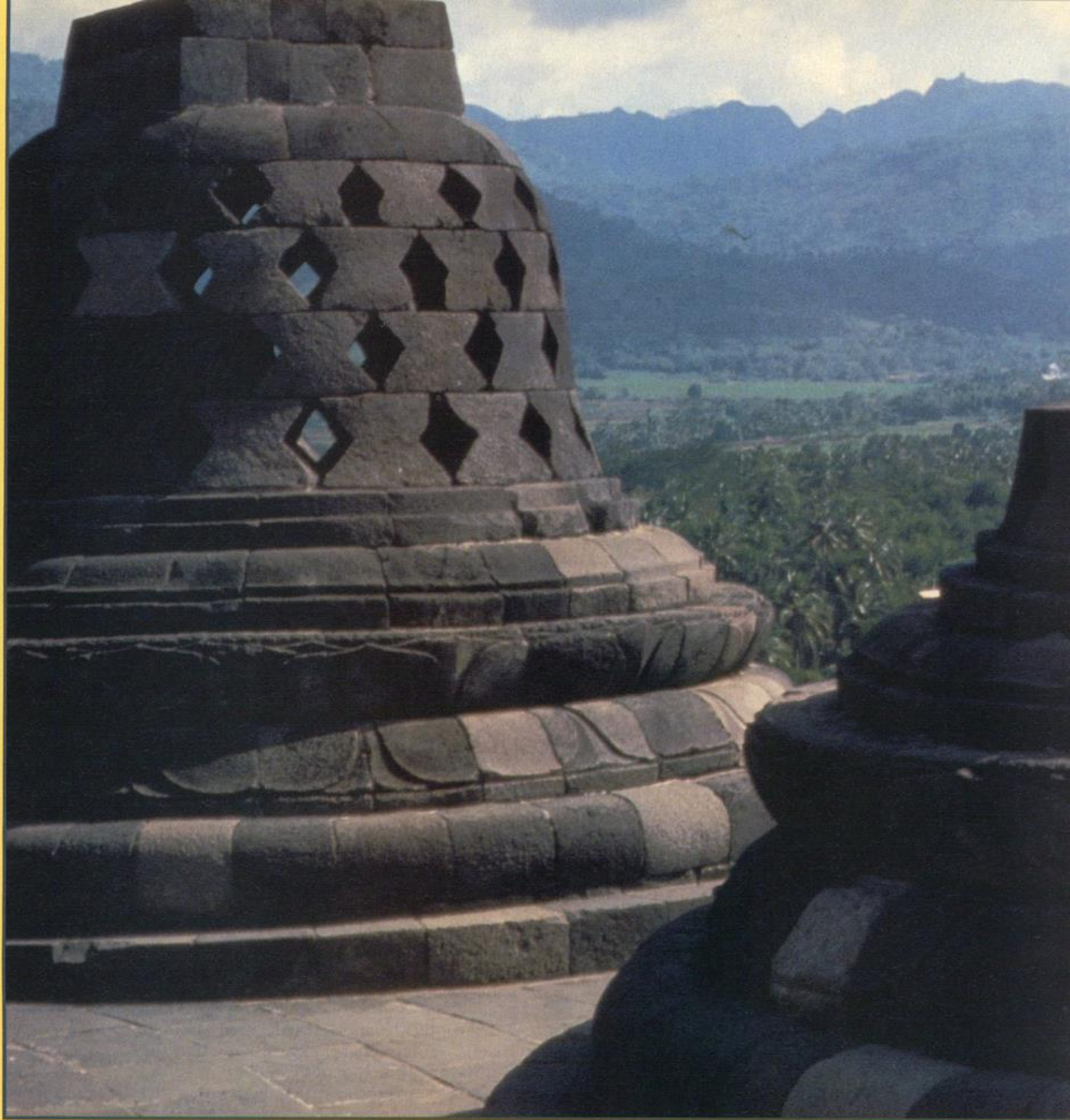
As inexorably as the gravitational pull of a black hole, the total eclipse of the sun in Java drew my wife and me, amateur astronomers both, to Indonesia on June 11th, 1983. It was our second total solar eclipse.

While in Indonesia, we visited the world's largest Buddhist temple, the recently resored 1200 year-old Borobudur near the city of Yogyakarta. Nearby, we discovered an equally ancient complex of Hindu temples at Prambanan. Another night we stared down the molten gullet of an active volcano, Mt. Bromo, which roared like a jet engine, belching yellow, blue, and green smoke. And of course we constantly sampled the cuisine of the country which, literally, introduced spicy foods to the world. Remember: Indonesia was originally known as the Spice Islands. Above all, we went to beautiful Bali to enjoy not only the food, but the surf, the topless beauties, the stunning coral reefs sheltering gorgeous tropical fish, and the \$1 full-body, on-the-beach massages—in short, the life of paradise, spoiled though it might be by hordes of cheeky Aussies. And, of course, we sampled new herbal delights.

We quickly noticed a decided shortage of all kinds of ganja, reefer, Thai sticks, or any other form of THC. The government of Indonesia (unlike most of its people—isn't that usually the case with governments?) has been real nasty about cannabis and US policies have had an unquestionably chilling effect. But marijuana is not an indigenous crop in either Java or Bali anyway, so we acted on the always sound principle of when-in-Rome, and looked around for what was legally grown and consumed.

I am pleased to report that the legendary "magic mushrooms" of Bali are still available in selected restaurants. The Balinese center of all youth tourist activity is Kuta Beach, only two miles from the Denpasar International Airport. Kuta is a west-facing sunset beach, for late-nighters, surfers, and singles on the move. In contrast, nearby Sanur, an east-facing, sunrise beach caters to an older, air-conditioned, "international-class hotel" set. Sanur even has a Bali Hyatt Hotel.

When we arrived at Kuta, we had the names of three eating places purported to serve psilocybin mushrooms. The



Indonesia contains the world's largest Buddhist temple, the recently restored 1200-year-old Borobudur near the

first, Chinamen's, had apparently folded, for it was nowhere to be found. The second was too far out of town (one gets real lazy in Bali). But the third, the Garden Restaurant, hardly 40 yards from the central intersection of Kuta, was open, cool, lovely, well-appointed, and doing very little business. Most young tourists in Bali seem to be boozers rather than dopers.

The menu included a complete roster of fine Indonesian food plus some blander items for the more delicate tourist stomach. However, we were quickly informed that they were out of most entrées. Fortunately, this did not include several mushroom dishes. These were instantly recognized by the extra digit on the price. Not to worry. Everything was so cheap that, even with an additional factor of ten, the tradi-

tional psychedelic mushroom soup was only \$1.60 (1500 rupiahs at current exchange rates). The traditional mushroom omelette came in two doses, full-strength for the same price or half-strength for 85 cents (800 Rp). Also on the menu was a mushroom drink (ugh!) for \$1.60. But the newest addition to the psychedelic cuisine was mushroom pizza (!!) for an extravagant \$1.80 (1750 Rp)—omit the mushrooms and you could get plain unmagical pizza for 80 cents.

Having been previously warned that full doses of these psychedelic mushroom entrees were of the vintage 1968 fry-your-brain variety, we went for the half-omelette each. It was as advertised, a soft, smooth, gentle, electric ride of three or four hours—the most pleasant bit of psychotropic traveling



city of Yogyakarta.

you'd ever want. Paradise indeed, for only 85 cents! If you want the walls to melt—though only for a few hours, not the seven or eight hours of LSD—then the full omelette or other magic meals will do it. And it's all legal, above-board, out in the open, gathered fresh daily, and perfectly natural. (It's said that when the first Dutch ship discovered Bali in the late 16th century, the entire crew immediately jumped ship and it took the captain two years to round them all up again. We found out why.)

Our real discovery was in Java (where they do not serve magical mushrooms). We'd heard of chewing betel nut, but it hardly appealed to us—particularly after we saw older Indonesians with gigantic gobs pushing out of their lower labia.

Both men and women drool a blackish red that makes major league baseball players with a full chaw look positively genteel. But none of our sources had mentioned smoking the stuff.

Being curious cats, however, we went exploring one day in the "Big Market" of Yogyakarta, Indonesia's fifth largest city. The market was huge, an incredible labyrinth of countless tiny stalls and narrow aisles in a building close to 200 yards long and 100 yards wide. Five minutes into the maze brought on instant claustrophobia. We hadn't been there very long when the inevitable Indonesian-who-wants-to-practice-his-English attached himself to us. We decided to get a little something for the language lesson. So we asked



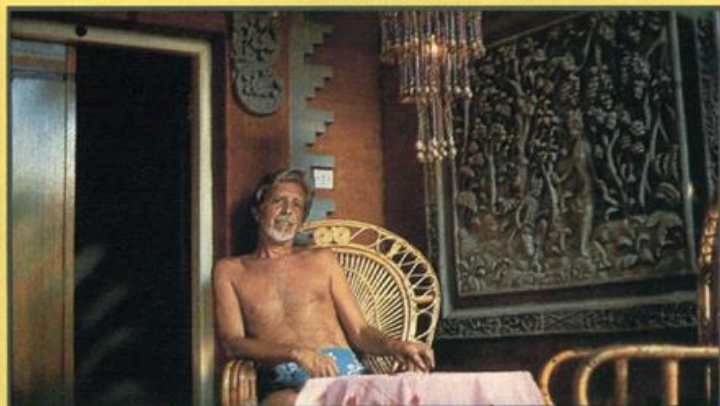
Borobudur 2 the stoned grin.

him where we might find "sirih," the Indonesian name for betel nut.

Without hesitation, he began to lead us purposefully through the narrow aisles of the market, past an incredible sprawl of stalls offering an almost infinite variety of merchandise. We came upon a little wizened old lady sitting on the ground, surrounded by all kinds of small plastic bags and piles of what looked like shredded, blackish-brown tobacco. Some was quite coarsely shredded, some much finer. It felt rather moister to the touch than ordinary tobacco. We pointed to the finely cut, asked if it was sirih, and to the affirmative reply responded "Berapa?" ("How much?") She held up a small bag and mumbled something which our Javanese friend translated as 25 Rp, a little less than three cents. We bought two bags for five cents. Do any of you remember \$5 lids in the '60s? Well, here was something even cheaper, an absolutely literal nickel bag!

Back at our rooms, we rolled a number (the bag yielded about a dozen joints) and tried it out. I know that drugs have widely varying effects on different people, but there are some broad patterns discernible to one who has carefully examined such matters. Let me tell you, folks, if you like psychedelic drugs, you'll love smoking betel nut. It's a strong smoke, so you'll have to inhale some air with it, much as you would with hash. It hit quickly. By the third puff I felt a noticeable voltage throughout my body, especially close to the surface of my skin, even down my arms and legs. It wasn't the soft, wavy, dreamy feeling of marijuana. Though sirih is similar, it had a more tingly sparkling quality. If you stand up quickly right after smoking your head will spin. Definitely electric. Smoked sirih has an additional distinct, if mildly stimulating, buzz which makes it unique—like a mild MDA. The effects are perfect for this hot, humid, lazy, tropical land.

Betel nut is, in fact, classified both as a stimulant and as a hallucinogen. Chemically, it is composed of six alkaloids (the active one being arecoline). As with all psychedelics, it is a body drug. But, in contrast to most stimulants, the energizing effect of betel nut is more tactile than neural. Perhaps for that reason, it has been used for centuries by Indonesian puppeteers (called *dalang*) to enable them to perform epic feats of prestidigitation and vocalization, manipulating as many as six puppets at a time, for up to six or more hours, in the traditional *wayang kulit* (two-dimensional puppet "shadow" plays depicting stories from the *Ramayana* and other traditional and modern Javanese tales). The *dalang* will even include in his often improvised dialogue requests for sirih from the audience. So the stimulating effect is as real as the psychedelic one.



The author on the porch of his rented house in a courtyard on Bali, 300 yards from the beach at Kuta. \$4 a day includes large tasty native breakfast and afternoon tea.

The initial impact of smoking sirih fades rather soon, but the glow lingers for quite a while, only gradually disappearing. While undoubtedly psychotropic, it doesn't cause the far-away-eyes feeling that marijuana does. And its speedy effect is not insistent, so you can just sit and groove if you want to. But if you desire to be active move around electrically, it's good for that also. In short, it seems an ideal psychedelic for active, short-attention-span Americans.

Betel nut is not just a local, Indonesian drug. It has been estimated that a tenth of the world's population chews betel nut—close to half a billion people! Although chewing betel used to be the main social pastime of Indonesians, its use is on the decline these days. Traditionally, it was considered an act of mutual honesty, trust, truthfulness and humility to chew it socially. Offering betel nut was a sign of welcome, a gesture of hospitality. In Bali betel was ceremonially chewed to seal an engagement. It's still used in religious offerings and at aristocratic weddings. For the last 1400 years, in China, betel nut has been used as a vermifuge; that is, it destroys intestinal worms, a fact verified by modern medical science.

There are actually two plants involved in preparing the chewing mixture. The first is the betel nut proper, obtained from the palm tree *Areca catechu*. The ripe seeds (which are about the size of hen's eggs, imbedded in pulp and skin) are husked, boiled, sliced and dried in the sun. They are then wrapped in some shell lime to activate the drug, and aromatic herbs, for taste and seasoning. The mixture is then encased in a leaf of pan pepper, also known as betel pepper, a climbing plant (*Piper betel*).

Not knowing if the stuff was legal or not, I smuggled some back to the States for an Indonesian party we threw in order to show slides and to introduce our friends to the various Indonesian foods, musics, and other delights we'd discovered. Everyone liked the betel nut, though several found it almost too harsh to smoke (they didn't inhale enough air with it, or took too deep an inhalation). Several who were also drinking booze really blanked out. But the consensus was favorable, and some, like us, were downright enthusiastic.

I have since found that it is quite legal in America. A couple of stores in San Diego carry whole betel nuts, but none have it in its treated shredded form. A store in the greater Los Angeles area claims it does, at times. I am still waiting for the next shipment. If and when it arrives, we will stock up (not caring whether it's coarsely or finely shredded), roll a few, put on the 100 slides we took in Indonesia, slap in one of the cassette tapes of traditional Indonesian music we brought back, light up, lean back, and re-live all of the incredible delights of Indonesia. ●

Interview: Rex Weiner



"Agent of Chaos"

by John Holmstrom

The idea for HIGH TIMES was first conceived during an informal meeting among some of the top underground writers from the '60s. Rex Weiner was one of those select few, and became one of the many underground writers and artists who found a welcome mat here after the '60s counterculture died down. Shortly after writing for HIGH TIMES, he moved on to Hollywood, where he's been writing scripts for many film and television projects, such as *Miami Vice*, and a short movie, *Che's Revenge*, directed by his wife, Ava.

Rex Weiner is one of the many people intimately involved in the creation of HIGH TIMES who are being interviewed for a special issue dedicated to the life and times of Tom Forcade, the founder of HIGH TIMES. This month, we've decided to try and get a glimpse of who Tom Forcade was, what he was like, and show why we think his life story is still as compelling, and as important, as anything happening today. **HIGH TIMES:** When did you first meet Tom Forcade?

Rex Weiner: I first met him in 1971, when we were starting a newspaper called the *New York Ace*. A guy who called himself "Honest" Bob Singer (who later worked at HIGH TIMES) took over the staff of the *East Village Other*, or *EVO* as we called it, when it started to die. So we took over an office over on 16th Street and needed some furniture. Somebody said, "Tom Forcade has a lot of desks over at the UPS (Underground Press Syndicate) office. Go see him."

So I went over to 17th Street where the UPS office was. On the third floor was what they called the UPS Commune, where a huge, tie-dyed tent sat in the middle of the loft, and people were just waking up around the middle of the day, crawling out of this tent. There was a rock 'n' roll band living there, and a bunch of really hot-looking babes were walking around. Tom seemed to have the whole place under his control and command.

Anyhow, he had a whole stack of

desks in the back, which we were happy to take off his hands and he was happy to get rid of. I could see that here was a rather unusual individual. He and I kind of hit it off right away. I thought, "Well, if I offer him a chance to write for the *New York Ace* that's sort of like payment for these desks." But actually, the payment was heavier than that. The payment was we became friends.

HT: Did you have a lot in common?

RW: We were both interested in the underground press, in making trouble with politically radical activities, and in shaking things up in the left-wing underground scene. It had become so cliched and corny and staid.

For instance, one time the Hog Farm was having a big blowout at Earth People's Park, up by the Canadian border. It was the middle of the summer and it had just rained. We drove up in a big, khaki-colored, military limousine, which had a stage welded on to the top.

HT: Was this the car he used to disrupt the Warner Brothers "flower-power" movie, *The Caravan of Love*?

RW: Yeah. He had some sort of confrontation going with Wavy Gravy, who was, a big Hog Farm personality. When we got up to Earth People's Park,



Rex Weiner.

cast, and proceeded to palaver about some deal that had gone sour or something.

But I'll never forget that muddy scene with Tom in that total white suit. That was his attitude. If everything was yes, he was no. If everything was no, he was yes.

Tom's political philosophy was: Whatever the predominant ideology, he was the opposite. Whatever you were for, he was against and he just loved to be that way. You'd sit there and say, "Well, nice day, isn't it?" He'd say, "No, I don't think so." Or you'd say, "I really think the Democrats should win this year." And he'd say, "Fuck the Democrats. I hope the Republicans get in. If the Republicans get in, then we can really have something to fight against."

It was a very unusual way of thinking. If there was anybody he resembled, it would be the Road Warrior—the guy who's on the outside, against everybody and everything, carrying some private hurt, some private cross to bear. You couldn't pigeonhole him. And as soon as he thought you understood where he was at, he'd move to another place.

"Tom was in his parson's coat and black hat, and just hit the guy in the face with the pie."

everybody was slopping around in the mud. Everybody was filthy, because the cliché was "If you're a hippie in a commune, you're dirty."

Tom got out of the car in a complete white suit—white boots, white pants, white jacket, a white shirt with a bola tie and a big white Panama hat. He stayed spotless as he strode through the Hog Farm, almost as an insult to all of these filthy hippies. Then he entered the bus, where Wavy was in a big body

HT: It also sounds like Groucho Marx—"whatever it is, I'm against it." Was that perverse side of his nature part of what inspired him to start up HIGH TIMES?

RW: Tom was a professional troublemaker. Whenever there was chaos or people in turmoil, he was in his element. He loved it. He found it highly theatrical and exciting. He loved to create chaos. Anything that shocked people out of their normal way of



Tom Forcade instantly became a counterculture hero following the famous pie incident during the Congressional hearing on obscenity.

seeing things, he'd like. And that's where HIGH TIMES came from.

It also came out of his lifestyle, as someone involved in the underground economy. He was a very good businessman.

HT: What were his political leanings? Was he a left-wing, right-wing, communist, capitalist, or what?

RW: Well, he had a theory and a way of expressing it. There was a book that he admired very much called *Agent of Chaos*, by a science fiction writer named Norman Spinrad. It holds the idea that there is the right wing and the left wing, and then a third force. The right wing and the left wing are in

this predictable dance together, but only the third force can really move things forward. Tom liked to be that third force. He operated on that principle pretty much all his life.

HT: Right now, as we go to press, the Republican and Democratic conventions are about to go on. Although you hear more about the violence in Chicago at the 1968 convention, the 1972 conventions were perhaps even more interesting. Tom was a major force at those '72 conventions, right?

RW: The whole Zippie adventure was great. Tom first announced the formation of the Zippie party in the *New York Ace*, and then he an-

nounced we were going to fill the swimming pools of Miami with green Jell-O and throw the delegates in.

HT: Were the Zippies ex-Yippies?

RW: No. Nobody around Tom was a Yippie. We were against the Yippies. By that time the Yippies had become calcified dinosaurs.

HT: Yippie stood for Youth International Party, but what did Zippie stand for?

RW: Zeitgeist International Party. And it was symbolized by Zippy the Chimp on roller skates.

HT: Did that have anything to do with Zippy the Pinhead?

RW: No. We had it first. The Zippies were a big presence at the Democratic and Republican conventions in '72. Tom came up with events like "The Wheelchairs for Wallace March," a piss-in where everybody went and pissed on somebody, and a strip-in.

HT: The Zippies were sort of a protest against Abbie Hoffman and Jerry Rubin, who were the Yippie leaders at the time. Was there anything specific Tom had against Abbie or Jerry?

RW: Tom had a fight with Abbie Hoffman. Tom knew something about publishing and had gotten a book of his own published, a collection of articles from the underground press. So at one point, Abbie went to Tom for advice on how to get *Steal This Book* published. Tom did some editing work on it for which he was supposed to be paid, but wasn't. And that pissed him off. I was friends with both Abbie and Tom. At the time I thought it was terrible. People were falling into two different camps. They were saying things like, "That Tom Forcade is just a copy of Abbie." You know, because he was differing with Abbie, who was the movement hero. All this shit was going on. Tom was really hurt by all these rumors and crap, and also by the fact that Abbie was more popular than he was.

So I came up with this idea of a movement court where we put this dispute before some trustworthy individuals within the movement to see if we could resolve it. I was the bailiff. *The New York Times* wrote a big editorial condemning it, calling it a kangaroo court. But I had done a lot of research on it, and modeled it on the "Sanhedrin," the Jewish courts of the Middle Ages that would take care of disputes in what was then a hip community within a larger community.

Anyway, the court delivered some wishy-washy opinion. It didn't come out right, and Tom continued to sue Abbie. I don't know if he ever got his money. But it was an interesting process.

Anyway, from that, Tom developed a real antipathy and antagonism

continued on page 86

THE BUDS FROM BRAZIL

DR. INDOORS' GUIDE TO CLONING



Fresh clones in broth.

By Bram

The secret to a successful garden is cloning. Cloning insures females for harvest and allows the grower to take full advantage of his or her gene stock. Just like Dr. Mengele, who cloned Hitler with the future in mind, you can clone cannabis with your future gardens in mind. The immediate harvest is a bonus. What you're looking for is to establish a base-line on continual, identical gardens.

Let's assume you have a closet that can be turned into a mini garden. The closet is 3' x 4' with a ceiling (see diagram page 45). The top two thirds of this space will be the main grow area and the bottom third will contain your clone room.

EQUIPMENT NEEDED

5-gallon bucket
3' x 3' plastic tray with 4" sides
two 2-foot long flower troughs
two 1/2" x 1/2" threaded nipple fittings
roll of garden hose (3/8" diameter)
400 watt Metal Halide (MH) with timer
24" dual fluorescent fixture
3' square black plastic sheeting
3' x 3' table (could be either a card-table or homemade)
duct tape
50 16-ounce plastic cups
50 4-ounce plastic cups
vermiculite
perlite
tube of silicon
oscillating wall fan
seed starter cubes

clone concentrate kit
plant nutrient solution (most items can be purchased from a dependable indoor grow store)
Estimated cost of materials:
\$300 to \$500.





Clones under 24 hour light cycle.

ASSEMBLING THE ROOM

Place the table in the closet, flush against the back wall. Put the 5-gallon bucket underneath to one side. Tape the black plastic underneath the table. The plastic tray fits on top of the table. First, however, drill two $\frac{1}{2}$ " drain holes on one side of the plastic tray as close to the bottom as possible. (Drilling these holes in the side will enable you to drain the tray without cutting a hole in the table.) Put a bead of silicon onto the threads of the nipple fittings and screw them into

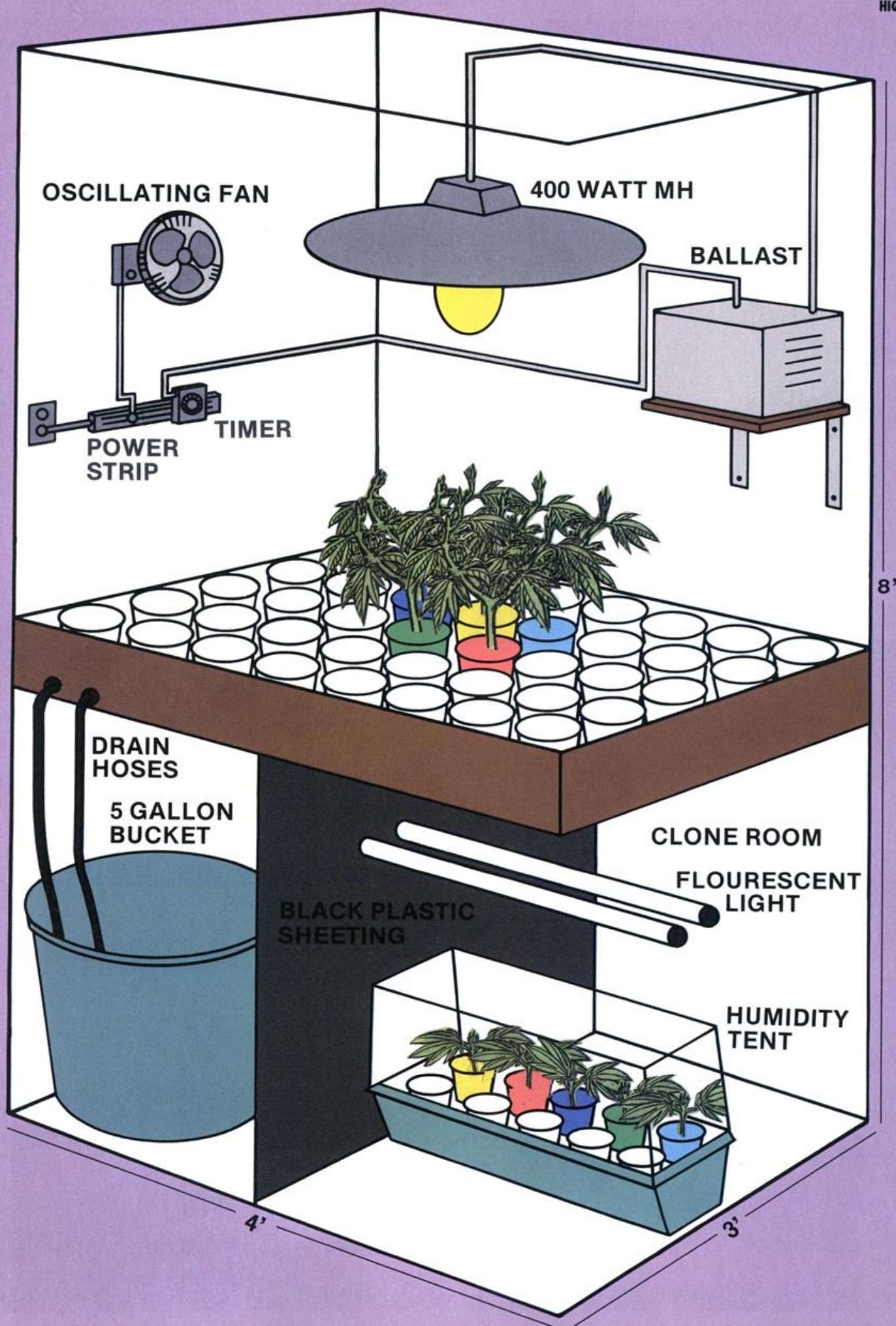
the holes.

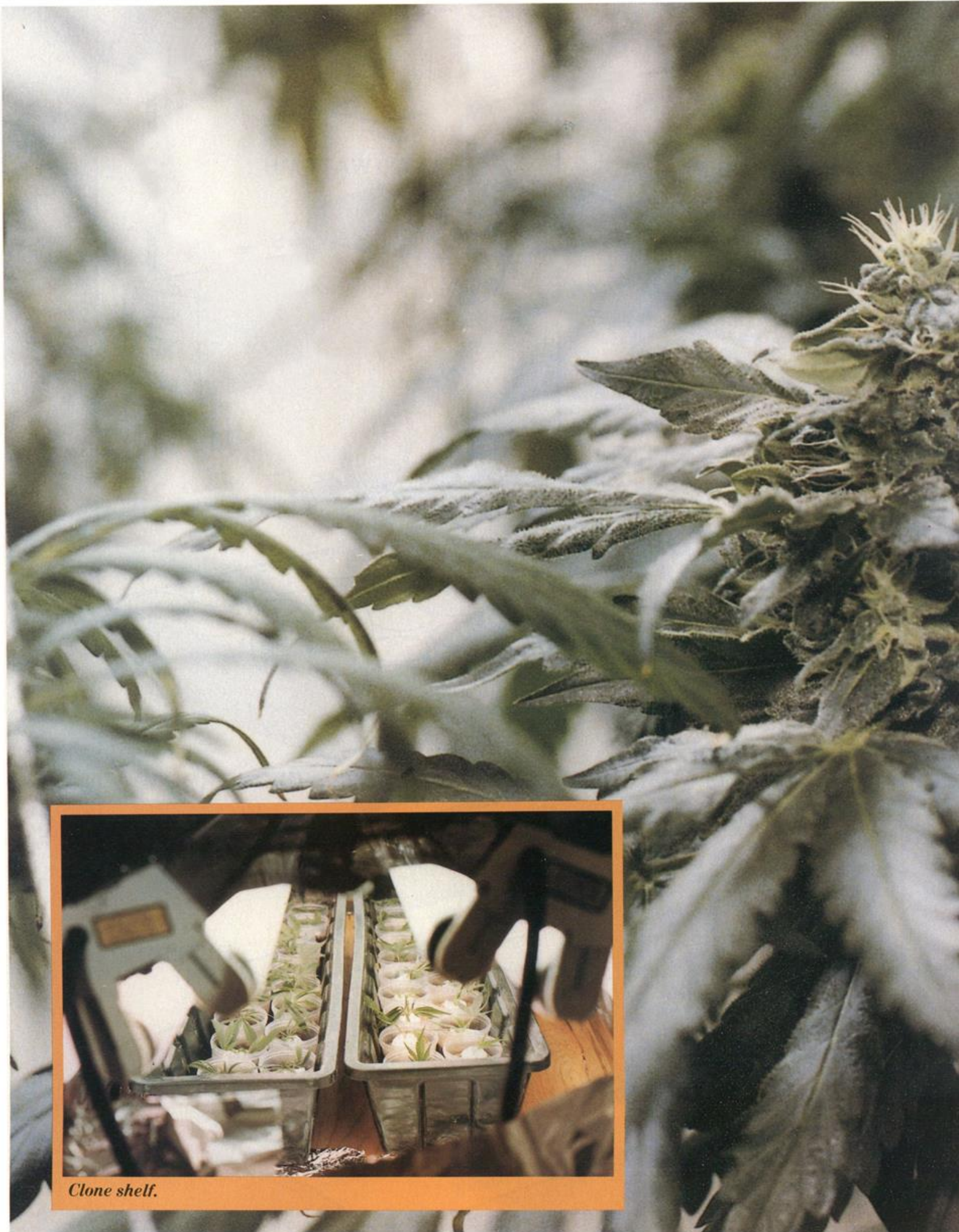
Cut two sections of garden hose to run from the nipple fittings to within 2" of the bottom of the bucket. (Having two drain holes will insure proper drainage, even if one hose gets blocked.)

Fasten the fluorescent fixture onto the bottom of the table. Mount the 400 watt MH above the table. Mount the ballast for this light on the wall. (This prevents accidents involving water and electricity.) Mount the oscillating fan on the wall. Use duct tape to keep any light from the MH from reaching

the bottom of the table. However, do not completely seal the black plastic: leave a flap in front to allow easy access.

Special note from the editors: it's best to exhaust hot air with a squirrel fan that vents in the wall or door. If not, put a thermometer in the room and keep a close watch on heat buildup. As an additional precaution, install white fire-retardant paneling. For ultimate safety, however, one would need a thermostat to shut off the light if heat build-up reaches dangerous levels.





Clone shelf.



Flowering snow bud clone.

PREPARING THE SEED

Seed stock should be acquired from a quality source. You cannot grow high quality plants from low quality seeds. For this reason, seed selection is the most crucial element in growing quality plants. Let's assume you have purchased ten Skunk #1 seeds for \$50. Punch enough holes into the bottom of ten 16-ounce cups to allow for adequate drainage. Fill the cups with a 50/50 mix of vermiculite and perlite, leaving enough space at the top for a grow cube. Color code each cup. Soak 10 cubes in nutrient solution. Plant one seed in each cube. Place the cubes into the plastic cups. Turn on the 400-watt MH and leave it on 24 hour cycle. Place the seeded cups onto the tray under the light.

The seeds will sprout within seven

to ten days. After they have sprouted, start watering. To water the plants, fill a 16-ounce cup with nutrient solution and pour it slowly over each plant. Continue this process until the growing medium is fully moist. Excess water will flow into your drainage bucket, where it can be recycled for up to one week. Water approximately six times per day. Keep the growing medium moist, but not waterlogged.

CLONING FOR SEX

As soon as the seedlings have three nodes on them it's time for cloning. Take ten 4-ounce plastic cups and fill with vermiculite/perlite. Color code these cups to correspond with the larger cups. Mix the clone concentrate according to directions and pour

it into each cup. Allow the mixture to become very wet.

Use a sharp razor to cut the top growth of each seedling just above the second node. (Small plant sections root and recover quickest, and have no shade leaves to remove.) Push the cut end of the clone (up to the leaf node) into the clone mixture and place under the fluorescent light (on a 24 hour cycle to stop the aging process and encourage optimum growth). In seven to twelve days the clones should have rooted, after which the light can be switched to a 12-hour cycle to induce flowering. This will establish which plants flower first and which are male or female. The males will flower first. As soon as they appear, they should be scraped (in a future article I will explain how to



Harvested main bud, snow bud clone.

use these males for breeding purposes). Also scrap the corresponding male plants under the 400-watt MH. Within ten days the females will identify themselves. As the female clones flower, keep notes on which females contain the most pistils and resin. Pick out the best females and mark them as such.

Let's assume that out of ten seeds, you obtain five females, two of which are outstanding. Less than a month has transpired since you planted. You now have five females in vegetative growth under the MH. (These plants have two main heads and are almost two feet tall.) Five smaller flowering clones are left in the clone room down below.

You have a lot of options at this point. For the first-time grower, I'd suggest taking 20 clones from each of the best female plants and placing them in 4-ounce cups in the clone room. The five flowering clones should be transplanted into 16-ounce cups and moved into the upper chamber. As soon as the plants are moved, the light cycles must be switched: 12 hours above and 24 hours below.

After 60 days, harvest the main buds on the flowering plantlets as well



as the main buds on the larger plants. This will be your first and only large plant harvest. After that, each harvest will consist of 40 smaller plantlets—identical clones of your two original females.

From now on you can continue this never-ending cycle, producing 40 flowering clones every 60 days to enjoy as great smoke.

The secrets that I'm sharing with you HIGH TIMES readers will save you from spending money on the black market for cannabis or seeds. That means you can take the money you saved and give it to NORML. NORML needs your support to get us, you, the legal right to grow and have cannabis for personal use. So listen up and send those checks to NORML, Suite 640, 2001 S Street, NW, Washington, D.C. 20009

Send all questions and comments to Dr. Indoors c/o HIGH TIMES, 211 East 43rd St. New York, NY 10017. Photos would be appreciated and those wanting personal response should send a SASE with their letters. By submitting your photograph(s) you hereby grant permission to publisher to reprint the photograph(s) in HIGH TIMES magazine as well as any other Trans-High Corporation publication. •

JUST SAY BO!



PHOTOGRAPHY BY
ANDRE GROSSMANN



0!





ASK

BY ED ROSENTHAL

ED

GARDEN OF THE MONTH



Our own hybrid of *indica-sativa*. Height: 13'8". The garden yielded 10 lbs. of bud.
—Quebec, Canada.

Dear Ed,

I plan to grow in a space 5' x 2' x 8' high. I plan to construct a two-tiered system with separate areas for vegetative growth and flowering. Fluorescent tubes will be used in both systems. How many plants should I grow? How high should I grow the plants before placing them in flowering? Does plant size affect potency?

Sincerely,
—M.G.
Dobbs Ferry, New York

Dear Ed,

My only available growing space is 16' x 5' x 42" in height. Is this space a viable growing area?

—Rogers Rasta
Rogers, Minnesota

The flowering space can hold between 1-4 plants per square foot depending on variety. They should be forced to flower when they are no taller than 12", but can be put into flowering when they are as small as eight inches. Light from fluorescents is not strong enough to penetrate much beyond 4-8 inches of canopy. Growing plants taller will not increase the yield of the garden. The size of the plant does not affect potency.

Dear Ed,

My growing area is a 3 1/2' wide x 2 1/2' deep x 8' high closet. I have two 150w incandescent grow lights, one 40w fluorescent gro-tube and one 80w CW tube. The incandescents and 40w tube are above

the plants and the CW is set in the back, vertically. The total wattage is 420. I'm also using a sugar-yeast CO₂ system and an oscillating fan.

The plants grow great during the vegetative cycle, but when I change to flowering these big, fast-growing plants produce little dinker buds. Why?

—Great Big Little Buds
California

Perhaps the variety is not programmed for big buds. Another factor may be that the plants are not getting enough light or the light does not contain a balanced spectrum.

The garden's total area is a little less than 9 feet. One 250w HPS or MH lamp will light the garden well, emit more light and save on electricity.

Dear Ed,

I am setting up a grow room in an area of my attic. The center 28" is parallel with the floor. It has a height of 6'3". It then angles downwards at approximately 55 degrees; losing 2'3" in height in 4'8", where it then connects to the wall at the 4' level. (See diagram.)

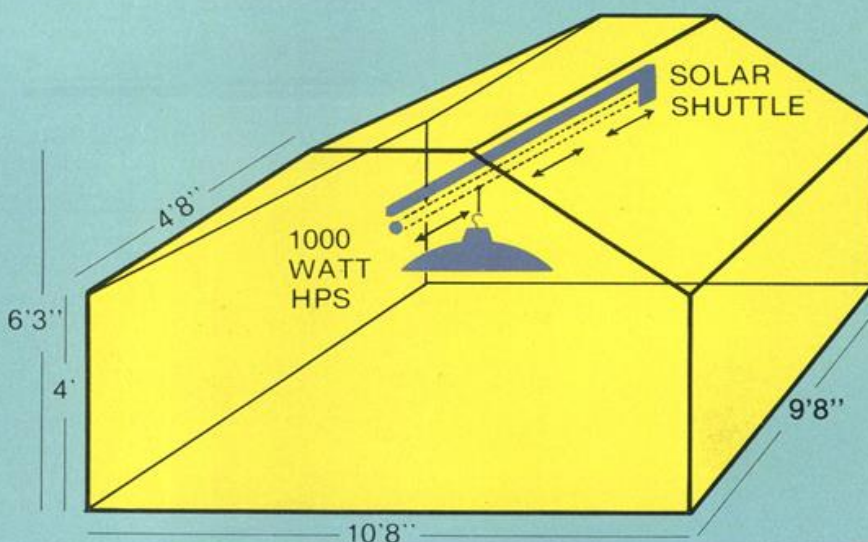
I already own a Sylvania Metalarc Swingle 1000 R with a 20" aluminum hood. I plan to add an HPS 1000 with a horizontal reflector for flowering.

Should I change the lighting unit I now have? Do I have room for a light mover? If so what should I use? Will one 30 amp breaker, devoted strictly to the lights, exhaust fan, circulatory fan, de-humidifier and light mover be enough? How good are the light-reflective qualities of styrofoam?

Thanks for listening.

—Greenhorn Grower
Grants Pass, Oregon

ATTIC CONVERTED TO GROW ROOM



Sylvania recommends the Metalarc be used only in fixtures with a protective covering such as tempered glass over the bulb to protect against accidents. The light source from the bulb is adequate for plant growth.

There is not enough vertical space

in the grow room for a circular light mover. A Solar Shuttle-type mover would work.

The two 1000-watt lamps use a total of about 2300 watts. The other machinery, excluding the de-humidifier, probably use another 200 watts. All of

these appliances could run on the 30 amp circuit. The de-humidifier probably uses about 1500 watts and, although it will run intermittently, it will overtax the line when it is running with the lights. It should be placed on a separate circuit.

PLANT OF THE MONTH



Nice amplifier, huh?! Two months three weeks from fetus to this! The plant was grown with a 175w MH and a 150w HPS by a couple of starving musicians.

Here is a question that has me stumped. Does anyone out there have an answer?

Since you mentioned in the March '88 issue that most of Thailand's weed is grown in the Khorat Plateau, I would like to know what part of Panama was all the Panama Red grown in? Was it in the mountains or the humid jungle and what cultivation technique did the growers use to make it so potent? Does it still grow there today? I'd sure like to go there and sample some fine red.

—M.D.

Cleveland, Ohio

Dear Ed,

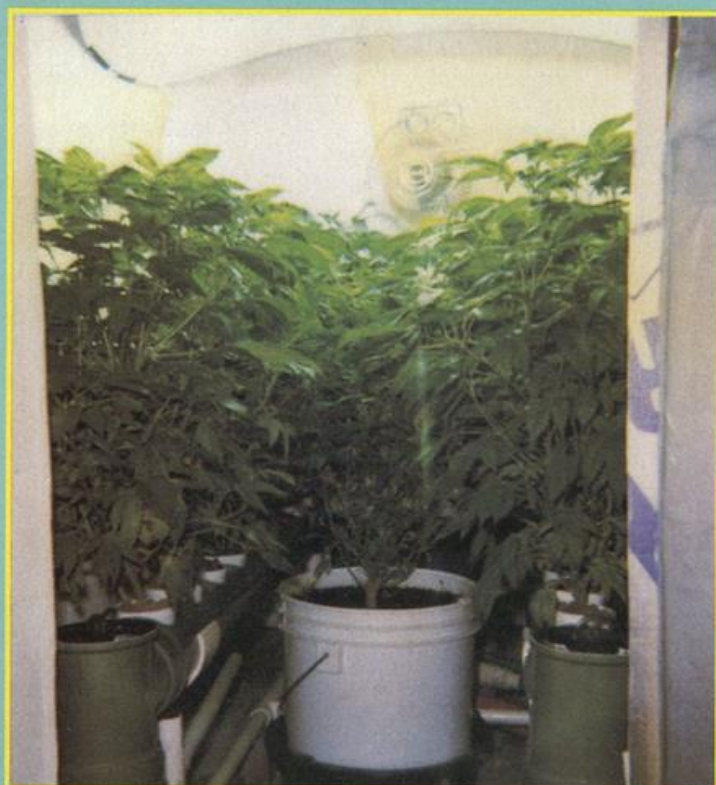
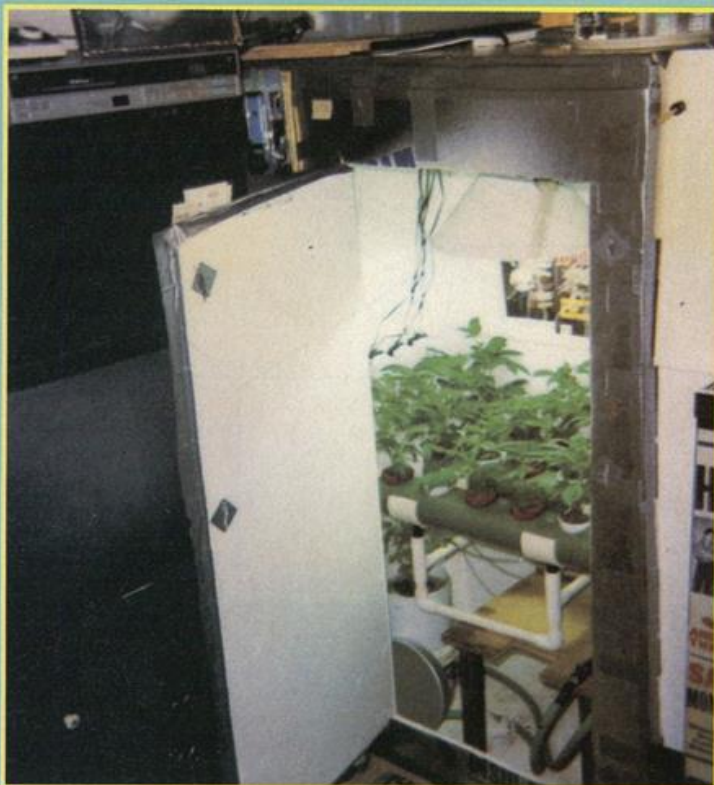
Here's a tip for microbox growers. You can add CO₂ by using a titrator (A piece of lab glassware that delivers liquids drop-by-drop.) Fill the titrator with white vinegar and position it over a cup with 1/4 cup baking soda in the bottom of the cup. Adjust the titrator to deliver 2-3 drops per minute. If your box has an exhaust fan for cooling, cycle it as seldom as possible or increase the rate of titration.

A 1/4 cup of baking soda with a cup of vinegar will produce about 1 cubic foot of pure CO₂ or roughly 10 times the daily need of a growing space of 8 cubic feet.

—No Name

No City

Thanks for the tip, No Name. By the way the U.N. Bill of Rights entitles to every human being a name.



Dear Ed,

My system is proof that you don't have to have a large growing area to have a large harvest. I grow clones that originated from the Seed Bank's Northern Lights 1 x Northern Lights 5. This hybrid has extreme *indica* characteristics. I made 43 clones from one female plant and it grew back thicker than before.

Here is how my system operates. I have two rooms: a vegetative growth room and a flowering room. My 2' x 3' Three-In-One Mini Closet serves as a vegetative growth room, a clone chamber, and a mother plant room, because I can take air layers from the vegetatively growing plants. It consists of 1" x 2" boards for a frame and is walled with $\frac{3}{4}$ "

styrofoam board used for insulation. I have a small fan installed in one of the walls to serve as a circulation fan and also to draw in fresh air. This cost me \$5 to build, mostly from materials around the house.

For light I use a 175w MH which has proved adequate. It cost me \$99. It also contains a commercial clone generator. This is where I grow my clones. One week before moving to the flowering room, I take clones from existing plants to replace the plants I am moving out.

My flowering room is a spare closet measuring 3' x 6' painted pure white. It contains a 400 watt halide.

I had absolutely no success with cuttage methods of cloning. I use an alterna-

tive method that is guaranteed to work if you find yourself having problems. It's air layering.

I take a limb and wrap a small piece of rockwool around a trimmed internode and then wrap this with opaque plastic to hold moisture and block light. Once a day I inject a liquid rooting nutrient into the layer with a syringe. After 7-12 days I check to be sure roots are formed and then cut the branch from the plant. It is ready to take off much faster than by seed and requires no hardening off, as with cuttings. The largest plants in the pictures were layered 30 days ago from a one-year old mother plant. I took 43 layers from one plant.

Thanks a lot,
—Texas Twister

Dear Ed,

Why are imported Colombian and Asian flower tops, even very seeded ones, much more potent than buds grown domestically from their seed? I know these plants are *sativas* grown at high elevation under intense sunlight. What other factors affect them?

—Mr. Lucky
Cleveland, Ohio

Equatorial plants use different cues to flower than plants that are from higher latitudes. At the Equator, daylight remains at about 12 hours throughout the year. Other factors might induce the plant to flower. Changes in temperature, moisture in the soil or even a built-in "chronological clock" may play a part. Some growers have suggested that equatorials need more UV-B light to become potent.

The method of forcing used for other plants does not work the same way with equatorials. Indoors, these plants usually will not flower heavily until the dark period is increased to 14 hours daily. Still, this "artificial" method of inducing flowering is not completely satisfactory.

Indoors and in most areas of the country pure equatorial *sativas* grow runny, skinny buds with little of the flavor and potency of their parents. I think that the primary reason for this is the lack of intense light. At the Equator the sun's light hits Earth more directly than at higher latitudes, so it is much more intense. The light intensity gap becomes much greater in the fall, when the buds begin to mature.

Asian varieties seem to mature individual buds over a period of several months, and continue to grow new

buds and flowers as older ones seed.

Indoors, under artificial light, it is difficult to get equatorials to reach their full potential, because of the light intensity which is required. There are several ways that it can be done, however. An equatorial *sativa* can be crossed with another variety which does well under less intense light and can be forced using a standard light regimen. Another method would be to grow plants using sunlight under a controlled light regimen. For instance, plants grown in a greenhouse which has shading can be given 14 hours of darkness each day, inducing flowering in mid-June, when the sun's intensity is at its peak. Even with a two-month flowering period, the buds should be ready for mid-August, while the sun's intensity is fairly strong.

continued on page 56

ASK ED

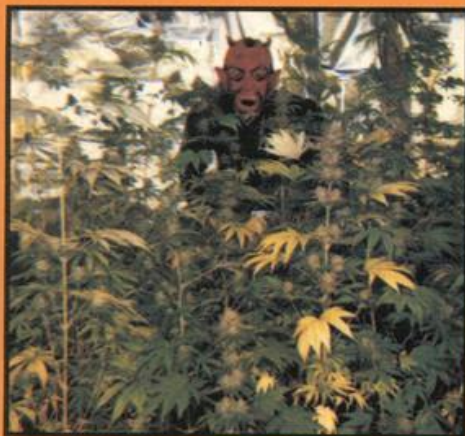
2nd ANNUAL HALLOWEEN PHOTO CONTEST

Compiled by Ed Rosenthal



#1 The skunk is in for Halloween.

—Uncle Skunk
Florida



#3

Been growing indoors for five years. These are indoor Afghani buds.

—Mr. M
The Madman of the Midwest
Centerville, Iowa



#4

This is my first year growing the superb herb and these are three of my best plants. They were huge with tree-trunk-like stalks that produced hairy, sticky-sweet buds. Notice the Marijuana Monster protecting the plants.

—Raven
Creek Country, Oklahoma

Once again High Times readers have sent in entries for the Halloween photo contest. Here are this year's winners.



#2

These plants blew my face away. They are 60 days old and flowering profusely. We use rockwool in two-gallon bags. I have at least 10 different varieties. We don't use CO₂ but have constant ventilation.

—Name Withheld
Hooterville, Michigan



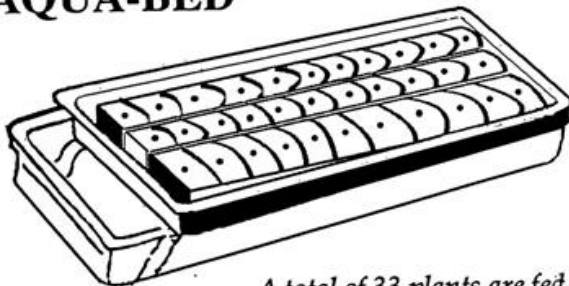
#5

The Devil Made Him Do It.
—Hollywood Homeboys

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ASK ED

continued from page 54

Dear Ed,

Right now the cost of electricity is of more importance to me than the rate of growth of the plants.

Is the growth rate increased proportionally with the number of hours lighted? That is, will a plant with continuous light growing at a rate of three inches per week grow at a rate of two inches per week with 16 hours light?

Will I get satisfactory results with a 12-hour light/dark regime and a light flash during the dark period? How often and for how long should the light be on to inhibit flowering?

—Meter Miser

South Bend, Indiana

The rate of photosynthesis and thus the rate of growth is proportional to the number of hours of light. Increasing or decreasing the amount of light affects the plant's growth rate in a direct ratio.

Although the rate of growth will be slowed, your plants can get by on 12 hours of light per day with intermittent light flashes to prevent flowering. Ten minutes of light every three hours should prevent flowering. Rather than using an HID lamp, use either a string of incandescent lamps, at the rate 60 watts per square yard, or warm white fluorescents at the rate of 20 watts per square yard.

Dear Ed,

I am currently using a four tube 48" fluorescent unit with two Sylvania Lifeline Gro-Lux tubes and two Cool Whites (CW). Are the CWs necessary or should I be using four Gro-Lux tubes? I also use a timer set for 16 hours on and 8 hours off. Is there a better ratio?

Thank you,

—Patrick

Sarasota, Florida

The Gro-Lux tubes actually put out less useable light than standard fluorescents. Provide more red light to the plants by replacing the Gro-Lux tubes with deluxe warm whites, which provide more red spectrum light.

During the vegetative cycle, the lights can be on continuously. During flowering the plants should receive a 12-hour dark period each day.

Dear Ed,

Once the light cycle is reduced to 12 hours to force flowering, can an increase in lumens during the light period aid in bud growth?

—The Mad Scientist

Newark, New Jersey

continued on page 58

THE DANGER OF ROCKWOOL

by Ed Rosenthal

After my two reports on Rockwool were published in HIGH TIMES last year, several manufacturers or distributors claimed foul. They said that the material was completely safe once it was wet, and their directions explicitly stated that it should be wetted before handling. Thus, there was no problem. Aside from the fact that most people read instructions after use, and know better anyway, this argument has a major fallacy: Microscopic-size fibers at the surface of the Rockwool dry out and become airborne.

Recently a concerned correspondent who works for an environmental services agency sent me an article from the June '88 issue of the magazine, *Asbestos Issues*. The story, "Fibrous Glass: What Are the Risks?" was written by Dr. David Schwartz, who works for an analytical laboratory in Chicago.

Dr. Schwartz summarizes the studies presented at the October 1986 conference on Man Made Mineral Fiber (MMMF), held in Copenhagen, Denmark. In his article Dr. Schwartz states, "Data was presented from three large studies in the U.S., Europe and Canada, involving nearly 45,000 production and maintenance workers in various sectors of the MMMF industry. The studies revealed that 30 years after first employment, a group of mineral workers experienced a 50% increase in the incidence of lung cancer. The risk appeared greatest for the Rockwool workers. No permanent health effects have yet been demonstrated in the fibrous glass worker population."

Recently the International Agency for Research on Cancer (IARC) reclassified mineral wool from 3, "not classifiable as to human carcinogenicity," to 2b, possibly carcinogenic to humans."

The other day I spoke with Dr. Schwartz about the use of Rockwool for horticultural purposes. He was unaware of any use of the material outside of the construction and insulation industries. However, he was concerned that agricultural workers would breathe airborne fibers. He said he was going to broaden his investigation to include agricultural uses.

Warnings about the dangers of Rockwool should be taken very seriously. Although there were few



CAPT. WHIZZO

reports of reactions or lung damage other than cancer at the conference, there have been many anecdotal reports from growers of both allergic reactions and temporary respiratory problems caused by the medium. In addition, many brands of Rockwool dissolve in the presence of acidic conditions such as those found in the lungs. As a result of this chemical reaction, harmful gasses may be released, depending on the materials from which the mineral fiber was made. Some of these gasses turn into concentrated acids in the presence of water and may cause ulcers in the delicate lung tissue. Anyone using Rockwool should follow these simple precautions:

1. Buy only the material which comes ready to use, either in a bag to be set down or in cube or block form. Do not use the type that comes in bale form to be placed in containers or mixed with ingredients of other mediums.
2. Always wet the Rockwool before starting to handle it. This prevents fibers from loosening and becoming airborne.
3. Always use a respirator mask, gloves, and full body clothing when messing with Rockwool. Remove this clothing when the tasks are finished.
4. At least one Rockwool manufacturer in the U.S. has banned smokers (tobacco, that is) from working in their facilities because of the potential several-fold increase in risk associated with the combination of smoking and exposure to MMMF. Users should be aware of this.



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ASK ED

continued from page 56

Yes. The more lumens the buds receive, as long as they also receive sufficient amounts of water, nutrients and CO₂, the bigger and faster they will grow.

Dear Ed,

In my hydroponic system, I use shredded and long fiber sphagnum moss with pump and airstones at the bottom, which runs 24 hours. I use a reservoir system, with a puddle of water-nutrient solution 23 hours a day, draining it for one hour. When is the best time to drain it?

Thanks
—The Budman

It sounds like you are attempting to use a Phototron II. The reason that the system is drained and the solution is changed every day is because of the swings in pH generated from using a very acidic medium. Over a period of hours, distilled water will change in pH from neutral to below six. I would drain the water 1½ hours before the start of the light cycle and fill the unit half an hour before its start.

Here is my reasoning. The period of least activity is at the end of the dark cycle. The plants' need for water and nutrients goes up when the lights go on and the plant starts photosynthesizing. The freshly added water's pH is least affected just after it is added to the unit.

Sphagnum moss has a capillary action which draws water up from the reservoir. It is also known as a tremendous buffer. This means that it holds nutrients and releases them gradually. This helps to prevent damage from overfertilization.

Many mixes prepared for commercial nurseries contain sphagnum moss for its buffering qualities. The nurseries often irrigate with a one-way spray using a rich water-nutrient solution. If the plants receive a slight overdose of fertilizer, the moss absorbs it with no damage to the plants.

The disadvantage of the moss is its acidity. In a mix where it is only one of the components this is usually not a problem. However, as the sole medium it creates tremendous problems for plants needing less acidic conditions.

One solution is to change the medium. Lava, clay pebbles, or a mix containing 20% sphagnum moss, 30% small styrofoam beads, and 25% each vermiculite and perlite will all work well in the system. Mixing a little vermiculite to lava or clay so the medium surface is coated with it, adds to the medium's water holding capacity. The mix's pH remains fairly stable so the solution can be changed just once every 5-7 days.

Dear Ed,

My room is 11' x 11'. Would it be better to use one 1000 watt lamp or to rotate three 400-watt lamps?

—Stoolhead
Centra, Oregon

You did not mention what kind of growing method you plan to use, so the room will be designed for a single-tier mini-plant system. Using stationary units, an 11' x 11' space could be divided into two sections, each about 4'3" long. Along the aisle of each unit, 2' from each wall there are two mini-aisles (M-A's), for a total of four. These indentations in the platform allow the grower to reach all the plants. The M-A's are each 18" wide and about 24" long. This means the M-A's can actually be covered over and supporting plants can be moved to the center aisle when access is required. With moveable aisles, more space can be filled.

Each of the aisle space is 11' x 4', a total of about 44 square feet. A space of this size would best be lit by two 400W lamps. Lamps moving on a shuttle-type system would provide a more even light, but stationary lamps of this size would be satisfactory.

Placing two plants psf (per square foot) in the garden would require a total of 176 rooted cuttings. Figuring an 80% success rate on the cuttings, about 215 starts will be required. Using 4" containers for the cuttings (215 divided by 9 psf) will require about 24 square feet of growing space. An 8' four tube fluorescent fixture will provide ample light for a grow space 2' x 7'. Two of these units, one under each table, will keep you in clones. Alternatively, half the space in one of the two grow areas could be sectioned off and dedicated to clones.

Dear Ed,

I witnessed a case where a 3-foot indoor female plant was picked clean of buds and leaves. It was assumed that the plant was done, and the lights were turned off. Two weeks later, the plant had put out four growing tips wherever there had been one, some new buds and many individual female flowers all over—on stems, between leaves and stems, on the leaf stems, everywhere!

My question is, when shifting from vegetative to flowering could the plant's reaction be hastened along by a two or three day dark period?

—Monk and the Gang
Chester, Pennsylvania

A stumper. I do not know. Perhaps some growers out there would like to experiment with this, or using a period of complete darkness to regenerate flowered plants.

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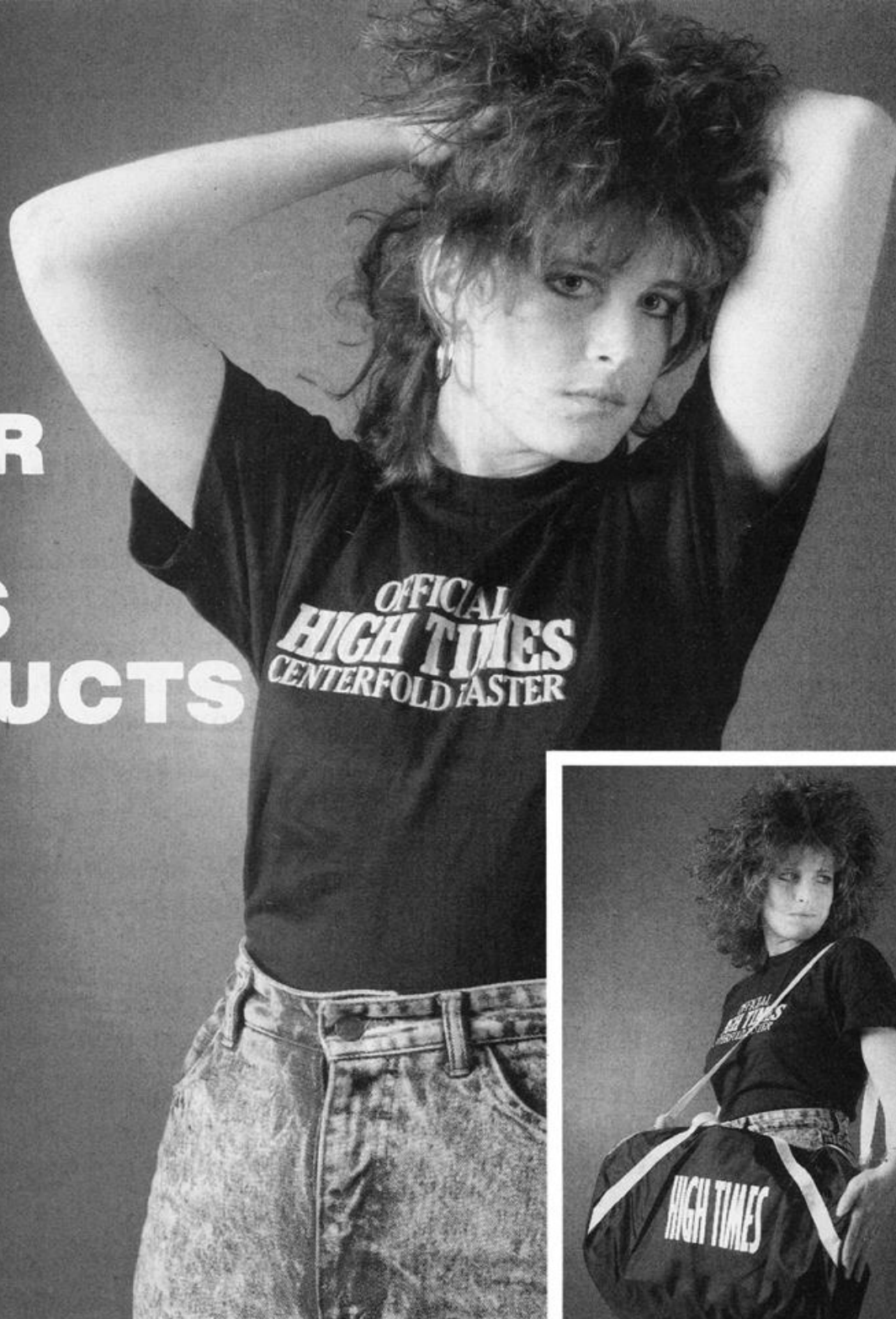
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ASK ED

continued from page 58

Hello Ed,

To keep the top surfaces of my pots reflective, I cover them with styrofoam beads. I can water through the beads, they reflect light, and they help prevent growth of algae on the top of the medium.

A long time ago *Organic Gardening* reported a Russian discovery which the magazine dubbed "Wonder Water." To make it, boil spring water vigorously for 5 minutes. All gasses are removed from the water in this way. Before more gas has a chance to dissolve in the water, pour it into a jug. The plastic polyethylene jugs are okay. This water stimulates germination and promotes vigorous growth. Some of my Northern Lights seedlings which I started with it germinated in 34 hours.

—Tokeville
North Bay, California

Dear Ed,

I have access to a fair amount of very good buds, so I decided to store some for a rainy day. I decided to freeze it to keep it fresh. My process is to put it in two sandwich bags first, then wrap it in plastic wrap or in tin foil before I seal it. To seal it, I boil a mason jar and lid with a little bit of water in it. After boiling it, I pour any remaining water out. I quickly put in the weed and put the lid on. When the air in the jar cools, it contracts which creates an airtight vacuum seal. Then I freeze it. I tested the weed after eight months of freezing and it was as fresh as the day I froze it.

My problem is that I have a 1/4 pound frozen now and no more room. With my sealing method, do I need to keep it in the freezer? How long can I store weed this way before it goes bad? Do you know a better way of storing weed?

Thanks,
—JA
Mt. Clemens, Michigan

Freezing weed is a very good way of preserving its integrity. However, the mono and di-terpenes, which are responsible for the odor and some of the taste of marijuana, the volatile oils, evaporate in a vacuum. You may have noticed that unsealed foods lose their taste (actually their odor) in refrigerators which use vacuum technology. This is because the volatile oils have been drawn into the vacuum. The reason that there was not much evaporation was that the oils remained frozen.

Using your method, including the freezing, the potency will last many years. The flavor and taste will only

continued on page 68

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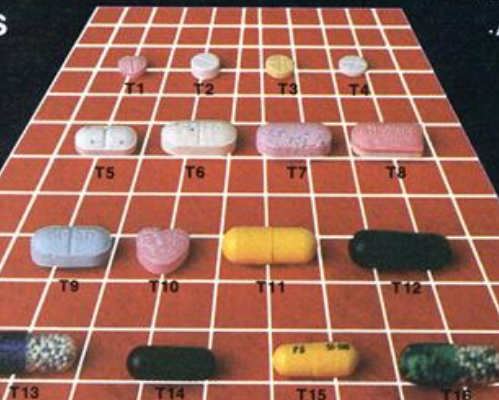
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by Carlo McCormick



Womb Garden, oil on canvas, 50" x 66", 1988.

HIGH ART



Desert Wind, oil on canvas, 22" x 55", 1986.

John Peñuelas

Welcome to the world of John (Jaguar) Peñuelas, where solitude begins in the presence of Others. Meditations in the realm of the fantastic, as if extra-terrestrial visitation were an ordinary every-day occurrence, Peñuelas' paintings are populated with a thin squiggly breed of aliens more akin to the Hollywood-cute "E.T." variety than any ominously threatening '50s sci-fi invaders. Peñuelas asserts that he himself has encountered the space voyagers he portrays in his art. Beyond his bizarre depiction of cosmic communication, the paintings have an hallucinatory, mystical quality that evokes a feeling akin to extra-sensory perception. Born and educated in San Diego, Peñuelas has taken something of the look and feel of the desert from his deep impressions of the southern California *arroyo*. Like religious hieroglyphs left by some lost ancient Indian tribe, Peñuelas' *trompe l'oeil* effect of stone carving articulates primitive iconic symbols of non-specific spiritual import. The work is, in an indirect fashion, about the Perennial Wisdom: the lore of the tribal shaman, the interconnectedness of all life forms, and, of course, the magical, heightened awareness of the universe's discrete rhythms, hidden significances and transcendental secrets that are all revealed through the bio-astral chemistry of psychedelics. Like so many of those UFO watchers who are out on that proverbial limb, this artist may seem a bit eccentric, or fraudulent, if not completely mad. But that limb is just one of a number of gnarly roots growing up instead of down on the tree of High Art, which is what it's all about—"believe it or not." ●



Number Nine, oil on canvas, 48" x 60", 1986.

ECSTASY: THE MDMA STORY *by Bruce Eisner*

Excerpted from Chapter 1 "Introducing Adam"

MDMA

Part three of a three part series

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Ron Siegel's Anti-MDMA Crusade

In addition to the questionable issue of brain damage, much of the DEA's other negative evidence rests on the study of recreational users done by Ronald Siegel of the UCLA School of Medicine. In an article in *New York*—"The New Drug They Call Ecstasy: Is It Too Much to Swallow?," by Joe Klein—some excerpts from Siegel's statements suggest the nature of Siegel's attack on MDMA:

"My reaction is 'Here we go again,'" says Dr. Ronald Siegel of the UCLA School of Medicine. 'Every few years you get one of these miracle drugs that's going to save the world and make everyone feel good. My favorite was PCP. Remember what they used to call that? The *Peace Pill*. At low doses, people were reporting serene, tranquil, peaceful experiences. Then it hit the street and the name changed—it became angel dust—and dosages increased and it was cut with God knows what, and you began to get all the reports of bizarre, violent behavior. So now we have Ecstasy. If you take it, you might become a self-actualized, empathetic, caring person, or you might become a nauseated person, or you might have a severe psychotic reaction. Among street users, we're seeing all of the above.' ..."

"The effects of the drug, he says,

seem very similar to those of mescaline. 'They're from the same pharmacological family,' he says. 'You know, the molecular twists and turns that the chemists are playing with—MDA, MMDA, MDMA—raise nice, interesting academic questions, but out on the street, the experience is the same: hallucinations, disorientation, psychotic episodes.'

"It is possible that because of the milder, more subtle effects of MDMA, inexperienced users are doubling and tripling the dose. It's also probably that after the recent media coverage, enterprising drug dealers are calling everything from speed to powdered sugar Ecstasy. 'We're getting people who claimed to have taken this drug who are disoriented for days on end,' says Siegel. 'We've had people locked in fetal positions for as long as 72 hours. We had a psychotherapist that took it, disappeared, and turned up a week later directing traffic.'

Siegel, in his statements, compares MDMA with two hallucinogenic drugs. PCP, which has a deservedly bad reputation, is nothing like MDMA, in either its chemical structure or its psychological effects. By linking the two, the negative reputation of PCP is pinned on MDMA. The reader is made to think, "Another PCP, huh? Let's get this stuff off the street."

Siegel also alleges that MDMA and mescaline are almost identical in their effects, and that the chemical differences are superfluous. Yet this is certainly not the case. As

previously noted, MDMA is not a hallucinogen as mescaline is—even in double or triple the normal doses. If it is taken in double or triple doses it produces unpleasant overstimulation, so high doses are normally avoided by users.

Then there are the repeated allegations by Siegel that MDMA can lead to psychotic reactions, and that sometimes these psychotic symptoms do not go away. The record of MDMA is one of remarkable safety, with the percentage of negative reactions very low. The cases that Siegel mentioned of prolonged reactions must even be rarer. Siegel is probably mentioning every horror story he has heard about the drug.

When hundreds of thousands of people take a psychoactive drug, there are bound to be a few psychotics or prepsychotics who take it, some of whom will be triggered into psychoses by it. With MDMA, unlike LSD or mescaline, the actual number of these reactions has been quite low. Ronald Siegel is employing a rhetorical trick by mentioning every extreme case. He makes the casual reader think that MDMA produces psychotics by the score, and that they could end up crazy if they should experiment with the compound.

When Siegel mentions that "cut" or adulterated MDMA is going to be distributed in doses that are too large, he should recognize that this is the common effect of putting any drug into the black market. This

occurred with heroin and LSD, and since the criminalization of MDMA, the same stories of adulteration and substitution and cutting are being heard about MDMA. Until then, almost all of what was represented as MDMA actually was the real substance.

The result of making MDMA a Schedule 1 drug has been that experimentation with MDMA has been effectively stopped, and people with an interest in taking it have been turned into potential felons. If it had been placed in Schedule III instead, then medical experimentation could have continued, and only street use would have been criminalized, although not to the same extent as with Schedule 1. Schedule 1 drugs require research protocols which are prohibitive to researchers without huge grants.

One last example of Siegel's distortions comes in an *Omni* article called "Chemical Ecstasies":

"One dealer gives written 'flight instructions,' promising that while XTC [Ecstasy, or MDMA] is 'kissing in your veins' during the hour-long voyage, you'll experience happiness, security, peace and freedom. That should end all wars, but secret U.S. Army tests in the Fifties found that it also ended the lives of experimental animals. Low doses reduce toxicity, but leave subjects with clenched jaws, wiggly eyes, and high blood pressure..."

Tom Riedlinger comments on the above in an article in the *Journal of Psychoactive Drugs*:

"Trivialization and deliberate distortions are obvious in the foregoing. Siegel is a specialist in psychopharmacology. He therefore knows perfectly well that *all* substances are toxic to humans at some dosage level. Drug experiments with animals typically include a test where dosages are increased incrementally until death occurs, in order to establish where the toxic threshold lies. Siegel chooses not to point this out, preferring instead to convey the impression that MDMA is toxic at low doses—which for humans, at least, is not true. He does acknowledge his duplicity implicitly, however, when he writes that 'low [read: therapeutic] doses reduce [avoid the dangers of] toxicity.' The side effects he mentions are acknowledged to occur in many patients and in different combinations, but virtually always

are no more than mere vexations—acceptable risks."

More Publicity

The kind of media coverage that MDMA got for several months after its criminalization was somewhat reminiscent of the hysteria and hyperbole of the anti-LSD crusade of 1966-69.

Perhaps an extreme example of this is a column by Shari Roan printed in the *Dallas Sun Sentinel*. The column, titled "Designer Drug Dangers," said in part:

"A drug lauded by a small group of psychologists as a consciousness-raising aid became an illegal substance as of Monday. But federal Drug Enforcement Agency officials and drug abuse counselors fear they haven't seen the end of the controversy surrounding 'Ecstasy.'"

"After three years of therapeutic use among a small group of psychologists, Ecstasy (MDMA) recently has become popular among some college students and gays. The hallucinogenic drug has less severe effects than LSD, and some therapists say it reduces anxiety and promotes empathy in patients.

DEA officials, however, say the drug is a dangerous and scientifically untested substance. The DEA called for an emergency ban on Ecstasy after University of Chicago researchers found the drug works by destroying large numbers of vital brain cells and may speed up the aging process in a manner similar to the muscle degeneration produced by Parkinson's disease. The DEA also reported 31 deaths from the drug, mostly in the San Francisco Bay area, with 26 of those deaths occurring after Aug. 1, 1984."

When I read the above newspaper clipping sent by a friend, I immediately called up Alexander and Ann Shulgin to ask them why I had not heard about all of this. Ann Shulgin answered the phone. When I read her the report, she replied, "They mixed everything up. All of those statistics and the Parkinson's disease portion are about alpha-methyl fentanyl (a synthetic heroin substitute)."

Immediately it dawned on me that this reporter, in her fervor to get out the anti-dope news, had taken information from two sources and intertwined them in a curious fashion. A strange twist, because the law that was used to ban MDMA

resulted from the scandal around synthetic heroin.

The last piece to be published in a national magazine during the media blitz was in the August 1985 issue of *Life* magazine. The article was generally a balanced view of the controversy. However, you would not know this by the title and accompanying bold headlines on the first page of the story. The title was "The Trouble with Ecstasy." Underneath the title in bold black letters is: "THE DRUG IS SEDUCTIVE, CONTROVERSIAL, DANGEROUS—AND NOW ILLEGAL." It's clear what message the casual reader would get from this sensationalistic treatment of MDMA.

Conclusions of the Hearings

The three hearings on MDMA produced ten volumes of testimony from DEA witnesses and professionals who wished to have the drug be placed on a less restrictive schedule so that further research would not be curtailed.

Some highlights of this testimony included two staff members of the Haight-Ashbury Free Medical Clinic facing each other from both sides of the issue, and agreeing that they had seen little abuse of MDMA in their practice. Depositions included statements by Alexander Shulgin and David Nichols distinguishing MDMA from MDA.

Ron Siegel, who had failed to show up at the Los Angeles hearings, did later testify on behalf of the DEA in Washington, D.C. He based his statements on a study of "street users." In a positive vein, Siegel stated that he did not find compulsive use patterns developing for MDMA and thought that it did not have a high potential for abuse.

Some other aspects of Siegel's testimony repeated the questionable assertions in the media. He declared MDMA a "hallucinogen" not much different from mescaline. He also told his favorite horror story about the Chicago psychologist who took MDMA once and ended up directing traffic on a busy boulevard.

In the same courtroom, one of the government's chief witnesses, John Docherty, former chief of the Psychosocial Treatment Branch of NIMH, told the court that he supported further MDMA research and that "MDMA is at the confluence

of two great trends in psychiatry: psychotherapy and pharmacology," because it had been shown to enhance rapport between therapists and their clients. Studies have demonstrated that rapport is one of the few factors reliably significant in psychiatry.

On May 22, 1986, the DEA's Administrative Law Judge Francis Young recommended, in a two-part, 90-page decision, that the compound be placed in Schedule III. "The administrative law judge finds and concludes," he wrote, "that prior to its being proscribed effective July 1, 1985, MDMA did have a 'currently accepted medical use in treatment in the United States.' It is not presently being used in treatment because it has been proscribed." The judge itemized 100 "findings" from the testimony that had been received. On the question of abuse, he declared that "The evidence of record does not establish that, in the context of §812, MDMA has a 'high potential' for abuse."

The DEA issued several objections to the judge's decision, including a charge that he was "biased." [And, in fact, ignored the judge's finding by placing MDMA in Schedule I—*ed.*] Richard Cotton issued a sharp rejoinder. "The DEA staff has reacted with knee-jerk hostility to what are serious and real medical issues. Moreover, their position that the evidence in this record warrants a finding that MDMA has a 'high' potential for abuse is—frankly—preposterous... The evidence doesn't exist... Nevertheless, the DEA staff is determined to place MDMA in Schedule I, come hell or high water, and it isn't going to let the facts, law, or even common courtesy to the Administrative Law Judge stand in its way..."

One of the litigants, Lester Grinspoon, decided to appeal the DEA administrator's decision to the First District Court of Appeals. James Cotton agreed to continue as attorney on the case.

Recent Events

By mid-1986, MDMA was a Schedule I drug and no longer hot media copy. While its use continued underground and legal battles raged, the first books on the subject were published and a major conference held.

The Haight-Ashbury Free Clinic sponsored a conference open to the public focusing on this newly

popular feeling-enhancer called "MDMA: A Multidisciplinary Conference," which presented most of the important figures in the MDMA scenario. Held May 18 and 19, 1986, in Oakland, California, the conference was well attended, especially by a large percentage of individuals in the helping professions.

Perhaps the highlight of the conference was Dr. Rick Ingrasci's passionate appeal to continue his therapeutic work with MDMA. Chemists Shulgin and Nichols were there to present chemical and pharmacological aspects, James Bakalar, George Greer, and Jack Downing, three litigants in the MDMA scheduling challenge, gave accounts of their work, and Ron Siegel tried to show he wasn't a bad guy by playing up the favorable aspects of his research. From the same side of the question, Frank Sapienza, a DEA spokesman, presented that agency's point of view. A sexual panel at the end, which was surprisingly dull despite the lively topic, concluded that MDMA was a "hug" drug rather than an aphrodisiac.

With the exception of an occasional local newspaper feature or small magazine story, MDMA would now almost seem to have never existed. There was no evidence of a massive groundswell of use or abuse. Few people were arrested for it or appeared in hospitals suffering from its effects.

The DEA promised that it would facilitate research for those qualified after scheduling, but researchers instead found that it was virtually impossible to get a research protocol approved; scientific studies became impossible.

Then, in September 1987, the First District Court of Appeals issued a decision. It ordered the DEA to vacate the ruling placing MDMA in Schedule I on a permanent basis.

The First Circuit Court ruled that the DEA did not lawfully follow the correct criteria for deciding whether or not MDMA met the standard for "currently accepted medical use in treatment in the United States" and for "accepted safety for use... under medical supervision."

With the ball back in its court, the DEA was only required to reconsider the matter administratively. The DEA decided quickly that they had been right all along, and placed MDMA

back in Schedule I, effective March 23, 1988.

It appears now that this ruling will stand for a long time. Those who have fought so long against the disproportionate power and financial resources of a DEA seemingly adamant in its desire to keep MDMA a scheduled drug may now give up. There is still legal recourse, but every legal victory the researchers have seen has been negated by the fiat of the DEA Administrator.

And just as I am completing this saga, I am surprised to discover a story titled, "Ecstasy: Poll Says 40% at Stanford Have Tried It" on the first page of my morning newspaper, the *San Jose Mercury News*. Also, a story with the same theme in the *San Francisco Chronicle* by Science Editor David Perlman reports:

"More than a third of all Stanford University undergraduates may have used the illegal drug called Ecstasy according to a student poll that was reported yesterday.

"In a letter in the current issue of the *New England Journal of Medicine*, Dr. Stephen Peroutka, a Stanford neurologist, reported that 39 percent of 369 students interviewed in a random sample said they had used the drug at least once.

"Some said they had taken it 25 or more times, but four to five times was the average use, the poll showed.

"The survey [was] conducted anonymously under Peroutka's supervision by two undergraduates who stationed themselves on Stanford's 'White Plaza' to conduct their interviews."

One last bit of recent media attention, "Tune In, Turn On, Go to the Office Late on Monday," appeared first in *Rolling Stone* and was recently reprinted in P.J. O'Rourke's humorous collection, *Republican Party Reptile*. O'Rourke tries to describe the mental effects of MDMA:

"If you think of your mind as an animal act (as good a metaphor as any, since bugger-all is known about how psychoactive drugs work in the brain), Ecstasy gets right in the cage and bangs the anxiety bear on the head with a lead pipe. It has the big cats up on their footstools making like stuffed carnival prizes. And it brings on the adorable fox terriers in party hats who walk on their hind legs, ride on ponies, and jump through the hoops for four hours." ●

CAN MUSHROOMS FIGHT AIDS

continued from page 35

backing, who works in a trailer protected by fighting cocks, might not be the scientific community's first choice for a hero.

"Which was what I was working on when I was shut down. You've got the university letters there; you've got National Cancer Institute letters there. I'm not talking through my hat. This work has got to be done. We have got to find out what these mushrooms can do."

That night I lay in my motel bed listening to the traffic on Pensacola's main street and thought about Peele. I thought about how he seemed likeable enough but slightly eccentric. I thought about how his eyes lit up as he talked, about his belief in what he said. I also thought about his methods and whether he might not turn out to be his own worst enemy. There are systems, after all, ways to get things done, and his going on television and talking about AIDS in an attempt to short-circuit those systems might, in the end, lose him more credibility than he gained.

I made a note to call some of the university people he worked with, to find out what they thought of him.

The motel phone rang long before I was ready to get up. It was Peele, asking me to join him for breakfast. I did, and after coffee and eggs we drove out to the post office to check the Research Center's P.O. box.

The morning mail brought in a few small orders for spore prints and a journal subscription, a new book on Chinese medical discoveries in connection with mushrooms and a request for information about the Mycology Center from a natural products medical company.

It was something, Peele said, but getting back to the rate of business he'd had before the closure was a slow process. "But mushrooms have been my livelihood for the better part of 17 years," he laughed, "so I guess I'll keep at it a while longer."

We drove back to the trailer and walked through the cow pastures. The fields were bone dry and there were no mushrooms to be found, but Peele collected several cow pies that had been taken with *psilocybe mycelia*: a gauzy white fungus which would produce mushrooms when exposed to moisture.

When we got back to the trailer the phone was ringing. A Tampa hospital had just admitted a man with mushroom poisoning to its emergency room and needed Peele's help to identify the ingested toxin and establish a procedure. Peele listened intently as the symptoms were described, then asked a number of questions regarding the size, color and so forth of the ingested mushroom.

"Don't do anything. Don't let him eat anything. Keep him quiet and let him sleep. He'll be all right tomorrow."

He hung up and lit a cigarette. "At least they had the sense to call. Most hospitals just administer atropine, which is the antidote to muscarine ingestion. But most mushroom poisonings don't involve muscarine so you just get sicker than if they hadn't done anything."

"I've developed a procedure to identify ingested toxins and prescribe antidotes but so far the hospitals don't want it. Stephen Peele ain't a doctor so he can't possibly know what he's talking about."

He shook his head in disgust. "You made a comment yesterday about me publishing in *HIGH TIMES*, Mister Peter. I'll tell you what: even your so-called experts don't always know what the hell they're talking about when it comes to mushrooms. Your magazine once published an article about *psilocybin* mushrooms and they used a picture of *Amanita phalloides* with the article. *Amanita phalloides* is the deadliest mushroom known. You eat the prescribed dose and you're dead. There is no cure. Well, even if it hurts me in some quarters to publish in *HIGH TIMES*, I will continue, because, man, it's more than just important to get the truth out about mushrooms; it's sometimes a matter of life and death."

I returned to the motel and spent the afternoon making calls. Neither the State nor the Federal DEA would talk about Peele's case except to say that an investigation had been conducted and a determination made that he be allowed to keep his Schedule 1 permits. I tried to discover whether they had really called all of his contacts and told them to stop doing business with him, but they declined comment.

However, the first person I spoke with at the National Cancer Institute—a man who identified

himself as a chemist in the Natural Products Division but who wouldn't give his name—said "Oh god! No comment. It's a very, very controversial subject and I don't care to get involved in it, thank you."

So SOMEBODY must have let on that the DEA was looking into Peele's permits.

But Dr. Gordon Cragg, the man with whom Peele has had most of his contact over at NCI, was more willing to talk. "In the field of mycology, mushrooms, Peele is very knowledgeable. I would say he's very dedicated to what he's doing." And, in a recent letter to Peele, Dr. Cragg notes that "the evidence for activity of *lentinan* against various viruses, including the Herpes virus, provides justification for testing your *Lentinus edodes* extract in the NCI anti-HIV screen. Your Florida Mycology Research Center provides a valuable resource in our search for new drugs from natural sources."

A call to Dr. Joseph Hoffman—Director of the University of Arizona's College of Agriculture—produced a similar positive evaluation of Peele's work: "Peele's work is encouraging because it opens up a whole new area of research. It's just unfortunate that he ran into some blind legal problems, but we're used to dealing with things like that from our suppliers."

Hoffmann followed up the call with a letter in which he notes that "one of the compounds recovered from an extract of *psilocybin* grown by Stephen Peele inhibits the molting growth phase of certain insects... a very important discovery which could open up the entire field of bio-rationally designed insecticides."

I asked Peele whether it was worth all the hassle, the sideways glances from the posh-posh world of Saturday afternoon mushroom growers and harassment from the State and the DEA.

He smiled. "I guess some people think I'm crazy, but what choice do I have? I believe in what I believe in, and I know I'm right. Mushrooms have been used medicinally by some cultures for thousands of years. We're just in the infant stages of investigation. So I guess we'll stick with it." ●



Regional Distribution of Mushrooms in the Genus "Psilocybe."

continued from page 36

Northwest

PSILOCYBE BAEOCYSTIS—Greyish-purple spore print. The entire mushroom bruises greenish-blue. Found growing on wood chips, decaying peat moss, and sometimes found on lawns. It usually occurs from summer into early winter.

PSILOCYBE CYANESCENS—Purple brown spore color. The entire mushroom bruises blue. Found on wood chips, twigs, and leaves. It usually occurs from summer into early winter.

PSILOCYBE PELLICULOSA—Dark purple brown spore print. The stem bruises blue. It is found on well decayed conifer wood, and around conifer (pine) forests. Also found in grass and fields at the margin of conifer stands. It usually occurs in the fall.

PSILOCYBE STUNTZII—Dark purple brown spore print. The margin of the cap and the stem bruise to greenish-blue. It is found growing on decayed wood and chips. Can also be found on bark mulch and lawns. Usually found in the fall, but is also known to occur during all other seasons.

Northeast

PSILOCYBE CAERULIPES—Purple brown spore print. The entire mushroom bruises blue. This reaction may take longer than with other Psilocybes. They are found growing on decayed hardwood logs or chips, especially maple or birch. They appear in the summer and early fall following good rains.

PSILOCYBE SILVATICA—Purple brown spore print. It displays very faint blue reaction. It is found on decaying conifer chips or logs in the fall. It is not very potent.

Southeast

PSILOCYBE CUBENSIS—Purple brown spore print. The entire mushroom bruises blue. When bottom portion of stem is rubbed, it immediately turns a yellowish-brown. The golden colored cap and deep purple ring on the stalk make for easy identification. It is found growing

directly from composted cow pies, and sometimes horse manure. They appear after rains during months when the temperature is 70 degrees F or above. It is also one of the easiest of all mushrooms to cultivate.

NOTE—Isolated finds may sometimes occur. Those of you who live in the Southwest may do better going into other areas or Mexico.



References:

The Mushroom Culture, The Journal of Mushroom Cultivation (TMC) has published the following articles of interest. Back issues are \$5.00 each, subscriptions are only \$20.00.

"Baeocystin and Norbaeocystin"—TMC issue #6, July 1985. "Identifying Psychoactive Mushrooms"—TMC issue #5, April 1985.

Ingestion of Psilocybin-Producing Mushrooms"—TMC issue #5, April 1985.

"Mushroom Toxins, Deadly and Psychoactive"—TMC issue #7, Oct. 1985.

"The Ecology of Psilocybe Cubensis"—TMC issue #8, Jan. 1986.

"The History of Psychoactive Mushrooms"—TMC issue #13, Oct. 1987.

"The Forgotten Mushroom Experiments" by Timothy Leary—TMC issue #13, Oct. 1987.

Fruits of the Gods—VHS Video (1 hr. 20 min.). Available from FMRC \$86.00/

FURTHER READING:

The Audubon Society Field Guide to North American Mushrooms, by Gary H. Lincoff.

Mushrooms of North America, by Orson K. Miller.

Hallucinogenic Mushrooms of North America, by Jonathan Ott and Jeremy Bigwood.

HIGH TIMES, Nov. 1983

HIGH TIMES, Oct. 1986

HIGH TIMES, Oct. 1987

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ASK ED

continued from page 61

last a few years, due to the loss of the mono and di-turpines.

Wrapping in plastic and aluminum might not be a great idea either. As plastic goes stale over a period of years, it may release toxic gasses. Some plastics, such as polyethylene, which is used for plastic bags, carry an electrical charge that attracts the glandular trichomes which contain the THC. You can see the glands held by charge on the inside of stash bags. Any aluminum oxides created naturally over the years may migrate to the marijuana because of the difference in electrical charges between the two substances.

I would keep the buds in a glass jar in a freezer filled with an inert gas such as CO₂, nitrogen (N₂) or nitrous oxide (NO₂). Glass is inert, it has no electrical charge and does not affect the material in any way. An inert gas prevents oxidation and does not encourage evaporation of the volatile oils. To prepare a container, first fill it with the vegetative material. Then using a tube attached to a gas tank, fill the jar with a strong steady blast of gas, then close tightly until sealed. Place the jar in the freezer.

Dear Ed,

I'm in the process of setting up a grow room in my basement, which has cinder-block walls, and I'll have to build a wooden partition for the other two walls of the room. Should I cover the block with tin foil or paint it white, or should a smooth surface be put up to cover the crevices of the block and then painted?

My room is 8' x 12' x 8' high. Using 4' fluorescents, how many will be sufficient? How many plants should I grow?

Thanks so much,

—Needs Help,

Elkin, North Carolina

Fill in the cinder block with plaster and then paint with flat white or use the dull side of aluminum to create a reflective surface in the room.

The room will probably be divided by a center aisle of 30", leaving two grow areas, each about 2'9" wide x 12' long. For each foot of width, at least two tubes are required, so the width of each space should have a minimum of six tubes. If the space is 12' long and the tubes are 4' long, then three fixtures will be required. Over each grow section, there should be a minimum of 18 tubes. They should be hung so that they are not far from the tops of the plants. It would be much easier to light this garden with HID lamps.

continued on page 71

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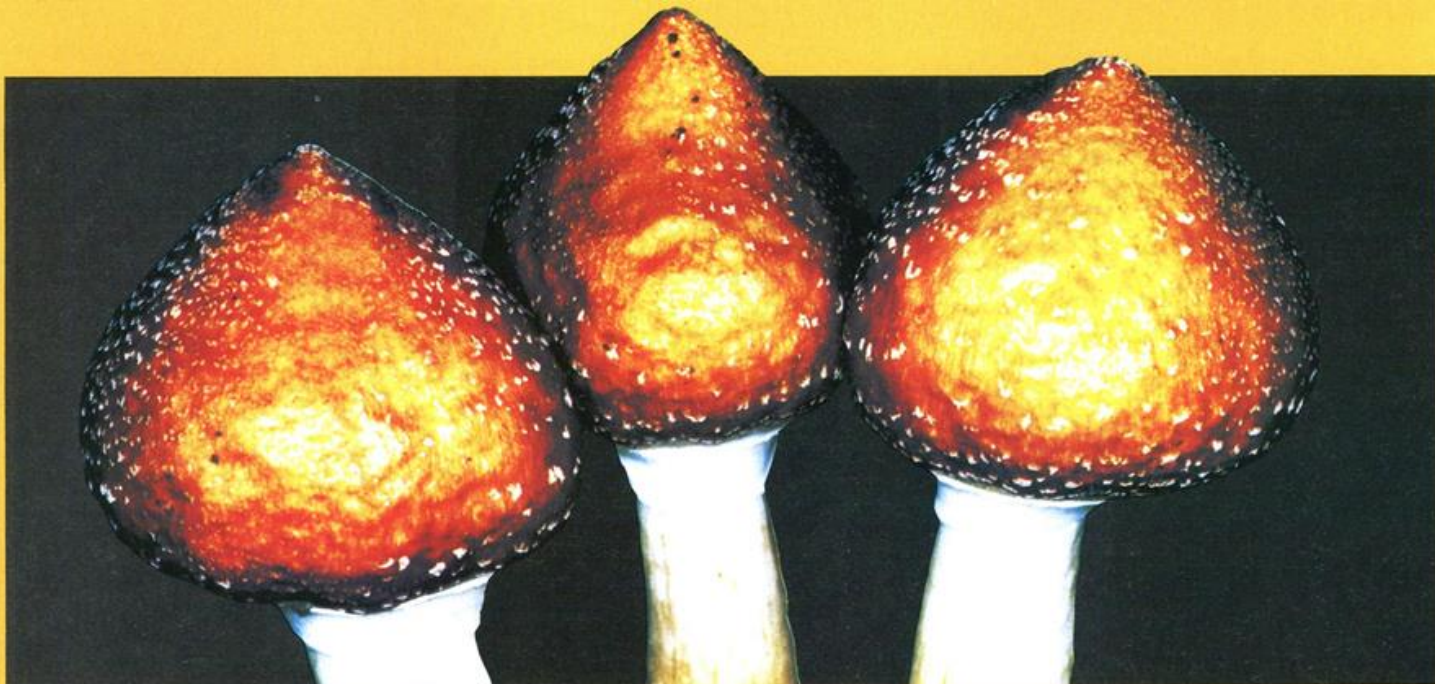
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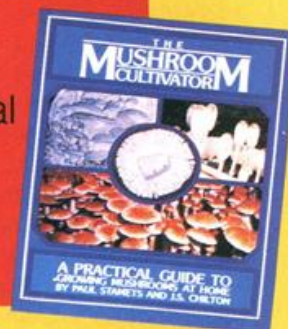


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Dear Ed,

This is my second year of indoor cultivation. Up till now I've been growing only sativa, by drip irrigation using the tall plant scenario. Alas! The winds of change have blown! I am now using a custom-made hydroponic set-up which will grow 110 clones to maturity in a 5'5" x 6'5" space. I have also expanded my gene pool with some dynamite indicas and indica-sativa hybrids as well as some superlative sativas from Oklahoma. Obviously, with all these different strains I will be breeding intensively. The plants that I choose will be placed under fluourescents for pollination. I use larger lights elsewhere. How many lumens per square foot is required to mature seeds? I don't care if the buds run as I am only interested in the seed.

Peace,
—Plantlet
Lynchburg, Virginia

The budding areas should receive no less than 1500 lumens per square foot to produce viable seeds.

Dear Ed,

I have a garden 2.5' x 2'. I have been illuminating this area with a series of fluourescents but I'm sure I could do much better with an HPS or a MH.

—Bogie
Springfield, Ohio

The two problems with big lights in a very small area are heat buildup and intensity. Imagine placing a 500W heater at the top of the garden. This is about the same amount of heat that is being produced by a 450W light. Dissipating this heat can be an almost insurmountable problem. Presuming that your unit is five feet tall or about 25 cubic feet, a fan moving 15-20 cubic feet per minute (CFM) out of the box might keep the heat in the low 80s if the intake air is in the low 70s. At that rate of air flow, it would be impossible to enrich the system with CO₂.

Light intensity is another problem. Ten thousand lumens will stress the plant unless it has enough water and nutrients. Although the growing conditions are controlled, it may be hard to satisfy the plant's needs when it is metabolizing and photosynthesizing at such a fast rate.

A single 150W HPS should take care of the plants' light needs and not create heat problems.

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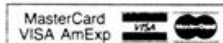
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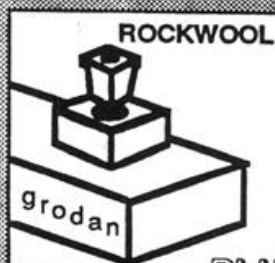
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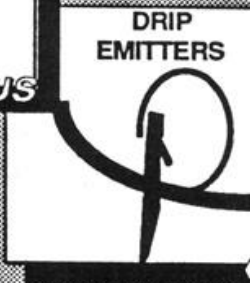
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ASK ED

continued from previous page

Dear Ed,

Is it possible to light a grow room with mercury vapor bulbs or quartz halogen lamps?

—O'Leary's Run

Fort Collins, Colorado

Yes, but these lamps are not the best ones for cultivation. Mercury vapor lamps give off most of their light in spectrums not used very efficiently by the plants, so most of the light generated is of no use. A metal halide (MH) conversion bulb manufactured for use in a mercury vapor ballast can be used to replace the mercury vapor bulb. The MH bulb has a much better spectrum for growing.

Quartz halogen (QH) bulbs are really incandescents which have a more balanced light spectrum. They are very inefficient producers of light. You would be better off with a 400-watt MH or high pressure sodium (HPS) lamp. Although the initial cost of the HID lamps is higher, they produce much more light than QH lights. If the cost of producing light is considered as part of the total cost of the lamp, then HID lamps are cheaper than QH lamps.

Dear Ed,

I have 12 Skunk #1 clones under a 400W MH light cycled at 18 hours on and 6 hours off. I would like to have space for a new batch of clones.

If I moved the older plants to a well-lit window, wouldn't they flower through March, since there is less than 12 hours of light during the winter and no more than 13 till the end of March? Could the flowering be continued through the summer if the plants were moved to a closet at night and then set out a few hours later in the morning, just so long as the 12 hours on/12 hours off photoperiod was maintained?

—Crazy Chevy

Grand Island, Nebraska

Yes.

● I welcome comments, tips, and questions regarding marijuana and marijuana cultivation. Send all letters to Ask Ed, HIGH TIMES, 211 E. 43rd St., New York, NY 10017. Also send entries for the Bud, Plant, and Garden of the Month Contests. All correspondents whose letters or photos are used will receive a free copy of my book, **Marijuana Growers Handbook, Indoor/Greenhouse Edition**.

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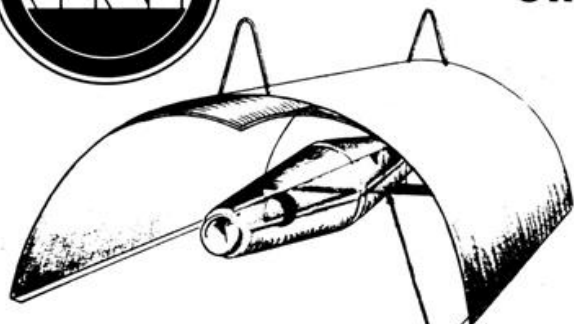
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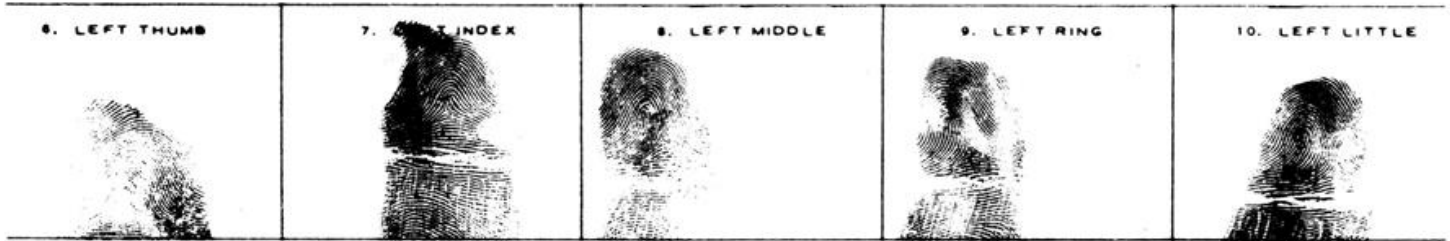


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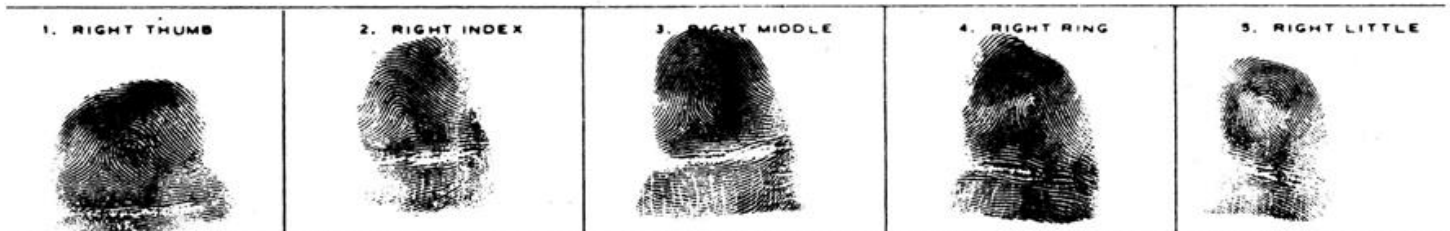
NORML provides legal referrals and assistance, credible information about marijuana and the reassurance of moral support. We need your help!

If you or someone in your family has been arrested for marijuana, please write us about your experience.

If you or someone in your family has submitted to a random urine test and lost their job due to an inaccurate result, please write us about your experience.

If you have not yet been arrested or urine tested for marijuana, please help us help the victims while we work together to prevent it from happening to you!

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NEXT MONTH



JEFF VAUGHAN

Christmas is just around the corner! So, to help you plan your shopping list, we're presenting the first ever **HIGH TIMES Gift Guide!** We'll be showing you all the neat stuff all self-respecting potheads hope to see under their tree. Also: an interview with

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continued from page 19

the officer to make the following observations:

1. Be suspicious if the driver gets out of the car.
2. Look at the license plates. (They want to see if the car is from a trafficking state.)
3. Look for indications that the vehicle's state of registration has changed. Decals, stickers, license tags, dealer ID's are all clues.
4. Look for scraped-off rental stickers.
5. Notice if the trunk key and driver's key are held separately, especially a key ring with ignition key only.
6. Look for a messed-up or tampered-with passenger compartment. Telltale signs are seats ajar, duct tape on dash.
7. Notice any unusual odors, such as marijuana, heavy perfume, or chemicals such as ether.
8. Look for substances which mask odors. Deodorizer cans or car hang-ups, coffee grounds, talcum powder, cedar shavings, etc.
9. Is the driver nervous?
10. Look for a clean dash and rear deck.
11. Notice if there is anything but a small travel bag in the passenger compartment. Is luggage or a spare tire in the passenger compartment?
12. Look for marijuana. Roaches in the ash tray, baggies in the visor, roach clips with residue, seeds on the floor.
13. Look for radar detectors and CB radios.
14. Look for high mileage in relation to the car's age.

When looking at the driver's documents, the film advises officers, be alert for a car owned or rented by someone other than the occupant of the car. The officer should also note if the car and driver are from different states, if the car has been recently registered, and if it is an expensive car without a lien.

The film stresses that the officer must return the documents after the completion of the traffic stop, so that the person is free to go, but that he should try to engage the individual in a "friendly conversation" in which the origin, destination, and nature of the trip, and ownership of the car is learned.

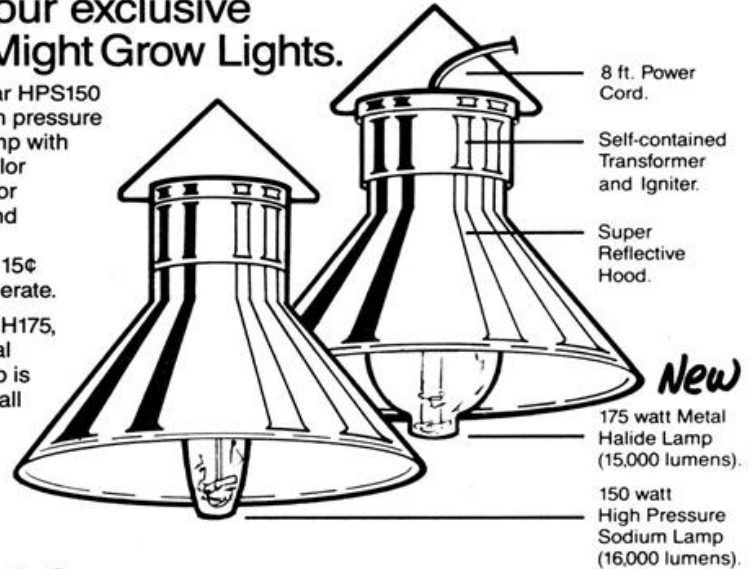
One suggestion is that the officer should ask if the suspect is carrying illegal drugs or weapons. Then ask if he can look. Then the suspect is asked to sign a written consent form. The suspect should be asked to open the trunk himself to establish the fact that the suspect had control over it as well as to reinforce consent. The search should be done on the highway, the film says, so that there is no defense that the subject was not free to go. (There was no arrest.) ●

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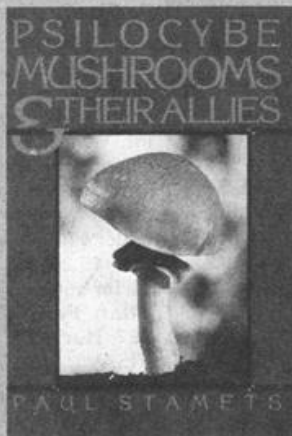
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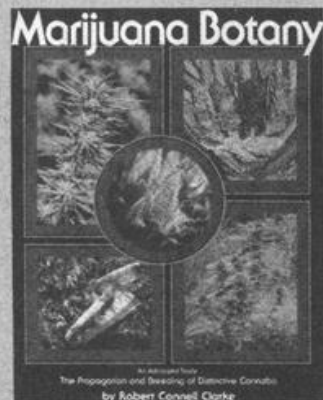
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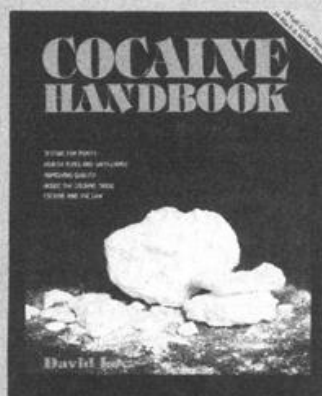
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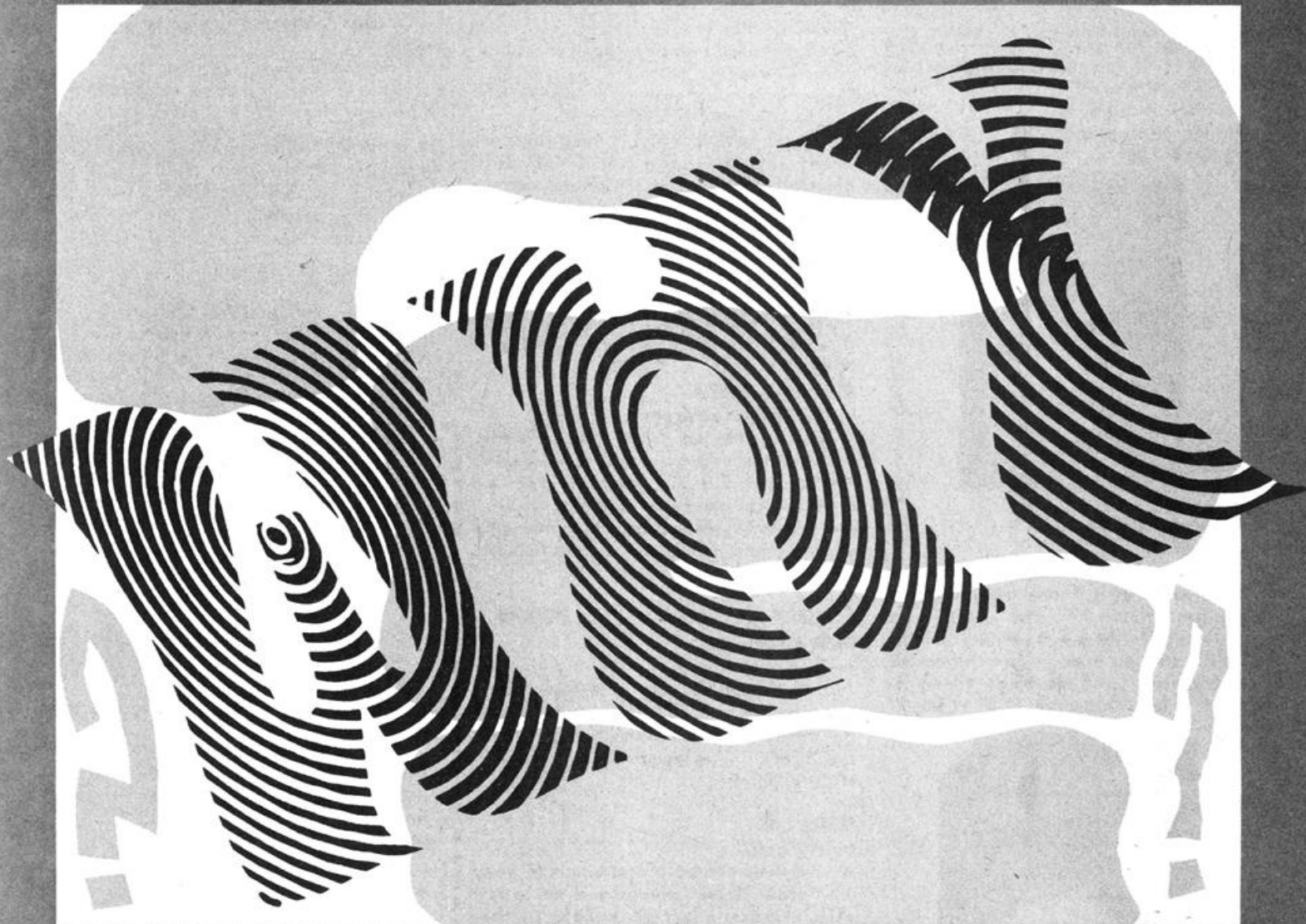
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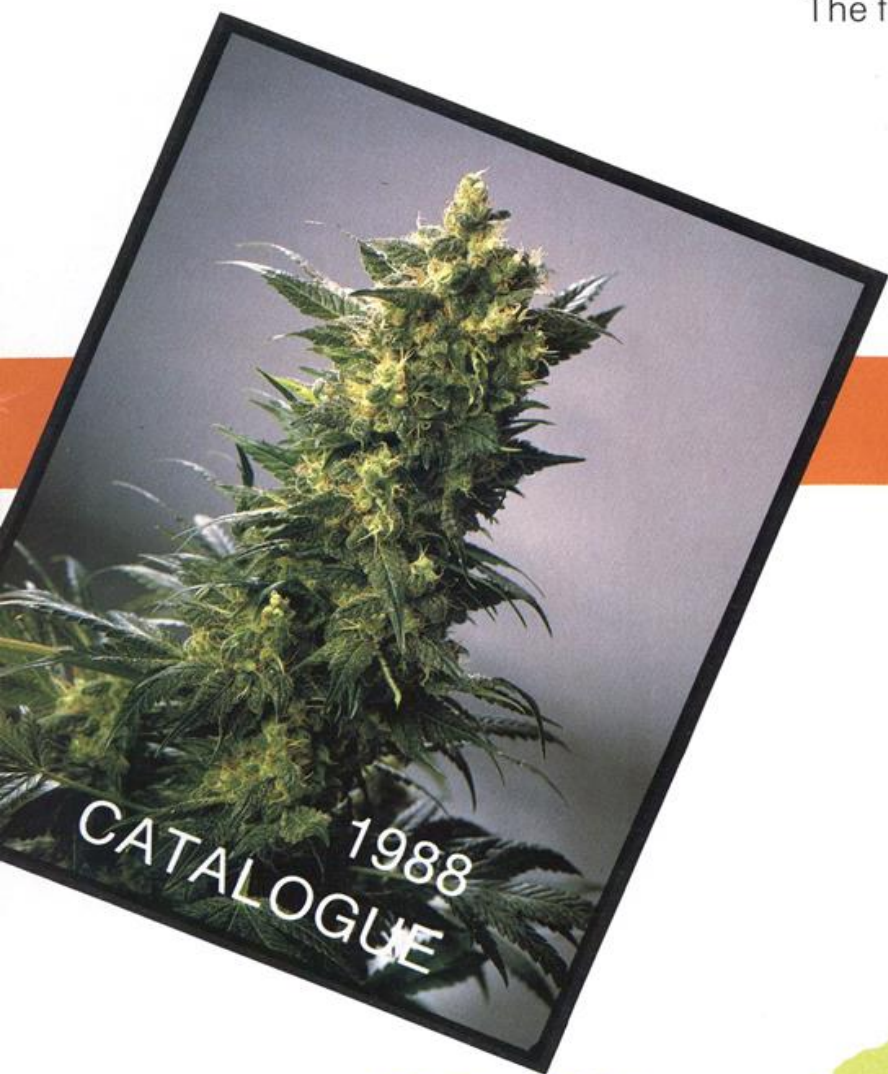
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LETTERS

continued from page 14

DEAD BBS?

First off, why can't you print a grow column for those of us who can't afford a full-blown setup. Second, I'd like to invite HIGH TIMES readers to correspond through H.T. about the possibility of a Grateful Dead-oriented computer bulletin board system. Third, how about another Grateful Dead issue? Last, I would like to ask all self-respecting heads, smokers, libertarians, and intelligent life forms to VOTE.

—The Lonely Repairman
Santa Barbara, California

PISS PATROL

I object strongly to Maura Less' choice of words in Piss Patrol (June '88). A piss test is a piss test and there is no fair or best way to go. No employer has the right to test me unless they're willing to pay me for 24 hours every day. We have a right to refuse to work for such companies.

—L.K.
Anchorage, Alaska

SCHMOKE FOR PREZ?

In too many previous elections, Democrats and Republicans have competed to sound more "anti drug" than their opponents, and engaged in trying to yell "reefer madness" louder than other rival politicians. We will unfortunately see more of this in the 1988 elections. I'm very tempted to write in Baltimore's Mayor, Kurt B. Schmoke, for President, or at least for Senator against Moynihan, but this would mean one less vote for the Libertarian Candidates for President and Senate. We could write in Jack Herer, John Sajo, Jon Gettman, Keith Stroup, Kevin Zeese, Arnold Trebach, Tom Alexander, etc., but the ballot counters and the system wouldn't know who these people are. Since earlier this year, Kurt Schmoke's name is much better known than any of the other names I mentioned earlier in this paragraph.

A large number of write-in votes for a courageous Black Mayor in a major Maryland City would be an inspiring way to just say no to Nancy Reagan, "piss tests," Zero Tolerance, foreclosures etc.


—Fred Newton
New York, New York ●

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Rex Weiner Interview

continued from page 42

towards Abbie, and especially Jerry, whom he despised. He developed this whole idea that the Yippies were over the hill. They were making too much money off the youth movement, and it was time for somebody else, for the people, to get back in there.

HT: What about Pie Kill, the company that would throw a pie in someone's face for a small fee?

RW: We started it as a personal service thing, and it grew to such a big industry. Now they deliver everything—strippers and candygrams and flowers and blah blah. Tom was a big inspiration for that because he threw the pie at the congressional investigator. They had one of these hearings on Un-American Activities, including pornography in the underground press. I think it was in 1970. He went to Washington to testify on behalf of the Underground Press Syndicate. He was in his parson's coat and black hat, and just hit the guy in the face with a pie. And that was his entire testimony.

So from that first political pie, we drew inspiration during Watergate. We started Agents of Pie Kill Unlimited, and we sold a bunch of franchises. We just did it as sort of performance art. Then we said, "Well, you could start this business, too!" And we sold a bunch of franchises to people who were foolish enough to buy them for 100 bucks a piece.

HT: And that led to the strip-o-grams and the gorilla-grams and...

RW: Yeah, all that bullshit.

HT: I heard that you and Tom once stowed away on a cruise ship.

RW: They were going to shoot off the last manned space flight to the moon, right? And there was a big event, where they were going to invite all the press, all these celebrities, a few paying people, all these top NASA scientists, and science-fiction writers. Tom was a big science fiction fan and couldn't get over the fact that Robert Heinlein, Theodore Sturgeon, and all these top science-fiction writers were going to be aboard this ship. So he said, "Let's go." And I said, "All right."

So we got on the ship with a bunch of friends, had a little party, said good-bye to our friends, and just sat there. And as the ship pulled away, it was one of the most incredible moments of my life. To sit there and watch Manhattan slide away and know that we were stowing away! This was no idle jest. It wasn't like, "Wouldn't it be funny if..." It was "This is what we're DOING." Tom and I just sat there and howled. We were laughing so hard! He had brought along a half-ounce of weed, and we lit up and just sailed on out into the ocean. And then stole some keys to a really

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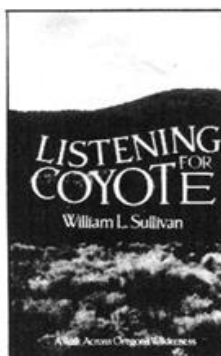
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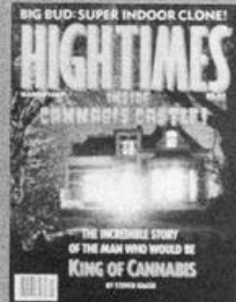
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MEDIA ROOM



UNFUNNY BOOKS

by Lou Stathis

Last year, the magic phrase in the big-time publishing biz was "graphic novels." Every book-slinger in New York City was out sniffing the trail, and baying packs of eager-assed young editors were being unleashed daily to chase down the word on these strange comic bo—er, graphic novel things. This frenzied bloodhounding resulted, not surprisingly, in a brief burst of fierce editorial buying—much of it incautious—followed by a measured withdrawal to wait for sales figures, from which judgment would be made on how the consuming public would respond to further excretions of fat, expensive comic books.

And now, the stats are in. The verdict? Thumbs down, for the most part. A couple of the things—Art Spiegelman's *Maus* (Pantheon) and Frank Miller's *The Dark Knight Returns* (DC Comics/Warner Books)—did quite well (cranking up everyone's expectations), several others disappointed by doing just okay—Harvey Pekar's *American Splendor* books (Doubleday/Dolphin) and Alan Moore/Dave Gibbons' *Watchmen* (DC/Warner)—but most of 'em stiffed the big one. Consequently, industry parrot-wisdom has changed from over-enthusiasm to "graphic novels don't sell" and a full retreat is underway.

The "graphic novel" is, like much of what gets peddled to us, a bogus mongrelization invented as a part of a marketing strategy. You can't have "graphic novels" any more than you can have cinematic or radio novels. They're just comics that go on for more pages than usual; novels are something else entirely. But comics have such a rotten reputation in this country—reading one in public is like wearing a neon sign that says "arrested adolescent who can't get laid"—that a new name (or packaging

concept, or marketing category) had to be invented to convince people that first, no one's gonna laugh at you for spending ten bucks on this picture-filled book, and second, you might actually enjoy the thing once you've read it. As one editor told me, you've got to make things more "book-like" to sell 'em to bookstore buyers. So, substitute the more adult and serious-sounding "graphic" for "comic", and slap "novel" on the end of it to give the impression that you actually have to read to get through it. Perfect, eh? Apparently not.

Comics is comics—meaning, they're a visual shorthand ideally suited to concise formats, either strips, short stories (comic-book length: 20-30 pages), or serials. Like rock 'n' roll or cartoons, the rhythm of comics just doesn't make it in extended forms; they don't carry the eye along in a smooth, easy flow the way straight text does. You have to stop and scan each individual panel's visuals, digesting all the information contained therein, and then read the words as well (comics at their best require full comprehension of both). This leads to a jerky reading rhythm, which quickly tires the eye (and brain), and means that the reader will probably not want to sit and consume long comics for extended periods. So optimal reading time is about 15-30 minutes—or a quick, one-sitting consumption. Longer, 100+ -page comics are thus rendered too unwieldy for casual readers, while simultaneously leaving the clowns feeling like they ain't getting their money's-worth because the word-per-square-inch count is so much lower than in "regular" text novels.

But, despite all this badmouthing, I'm not saying that comics have no business in long, bookstore-distributed formats. Nope—this package is best suited to

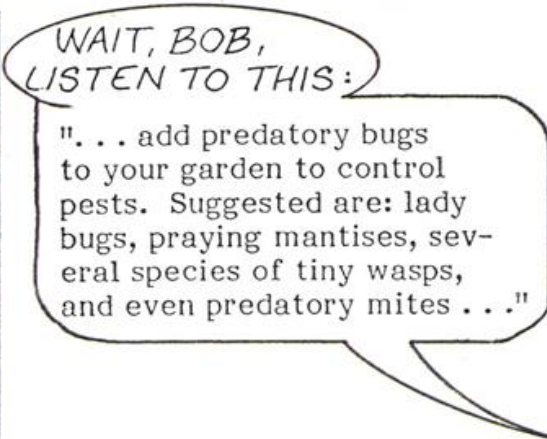
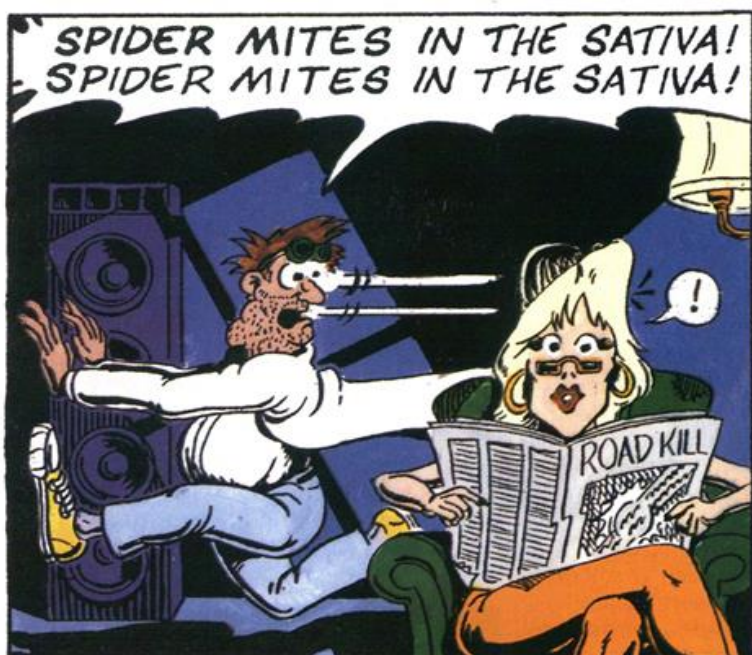
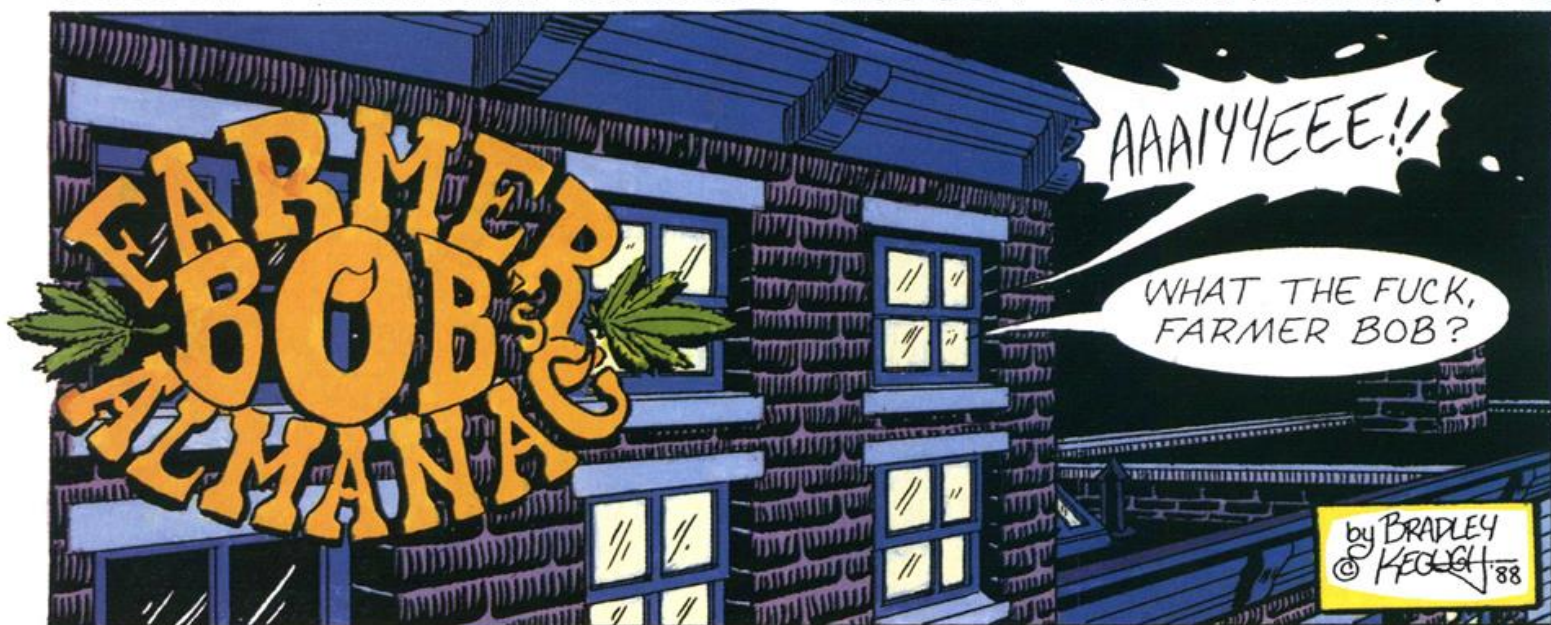
collections of previously-published, shorter works, I think. That way the immediacy and basic rhythm of the stuff is preserved in its original, cheaper format (at a buck-to-two-bucks a throw, comics are just about the cheapest entertainment around), and then, later on, posterity can be served by an omnibus book edition. Makes sense, don't it?

RECOMMENDED READING

Apropos of all this, several comics compendiums have sprung into being recently which merit dough-dumping on your part. Like f'rinstance Peter Kuper's *New York, New York* (Fantagraphics

continued on page 96





SOON IN
SOUTHERN CALIFORNIA:

HELLO.
BUGS-R-US.
--- UH HUH---
SPIDER MITES?
OOOH--- GNARLY.



YOU NEED OUR
INDUSTRIAL SIZE #8
MEGA-BUGS ASSORTMENT
WITH THE LOOK OF REAL WOOD,
TOTALLY RAD!



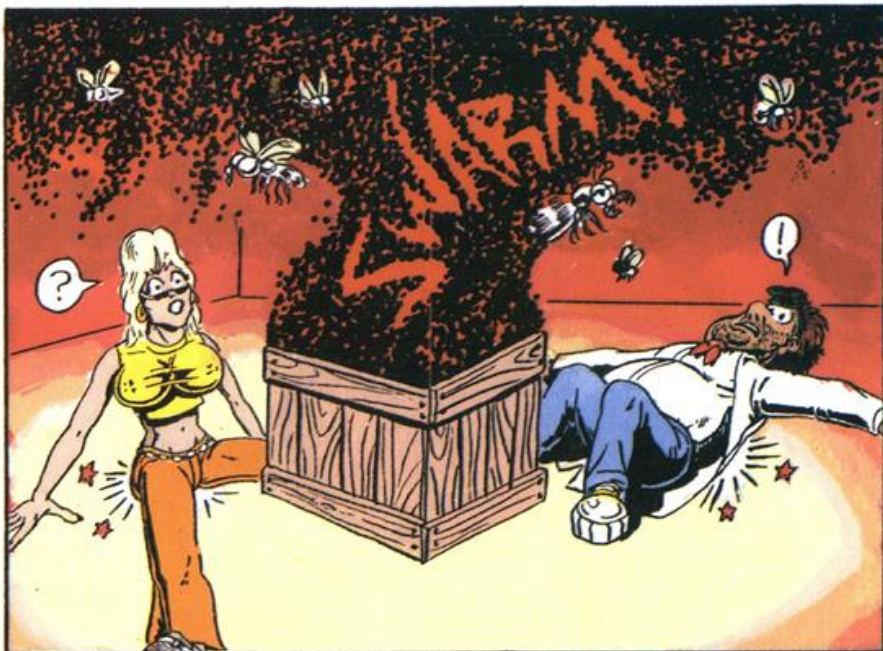
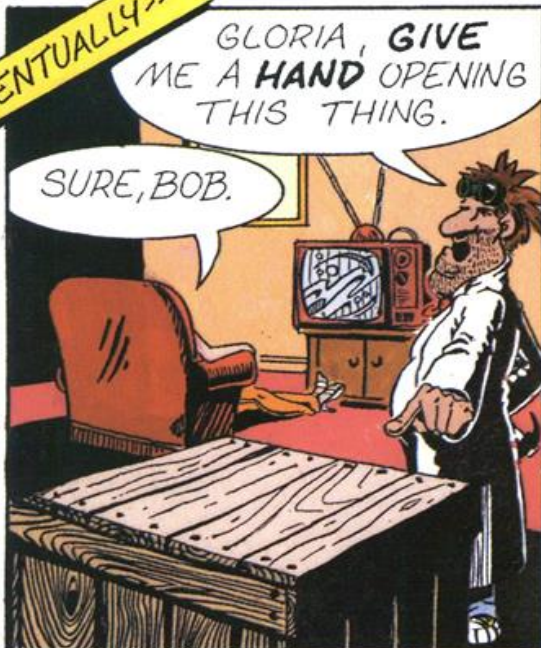
---IT'S IN THE
MAIL, DUDE ---
BITCHIN' TO THE MAX!
--- CIAO.



EVENTUALLY---

GLORIA, GIVE
ME A **HAND** OPENING
THIS THING.

SURE, BOB.



AH, HOME SWEET **PEST-FREE** HOME.
THERE'S NO **PARASITE** THAT WE
CAN'T GET **RID** OF WITH A FEW
THOUSAND WASPS, LADY BUGS
AND **PRAYING MANTISES.**

SHUT UP AND
PASS THE **ROACH.**



GO-GO GHOUL of the month

Elvira

Good evening! Permit me to introduce your Go-Go Ghoul of the Month—that curvaceous queen of camp... that voluptuous, versatile vamp... our favorite Halloween treat—Elvira! When you and your best ghoul finish gobblin' your favorite Halloween treats, why not check out El's new movie, *Elvira, Mistress of the Dark*? It's the story of a local TV horror show hostess who hits the big time—and since it stars Elvira, you know it should be a reel scream! ●





Gore 'Zine Roundup

by Michael J. Weldon

Horror movie fanzines and newsletters are still arriving in my HIGH TIMES mail box. In past issues I've mentioned most of the defunct (and collectable) '80s review publications, and told you how to subscribe to over a dozen others still being mailed out by hard working gorehounds around the country.

Here are six more that are new to me. These homemade publications range from one sheet of paper with type on both sides to a 44-page magazine. The editor/writers range from people that you might meet at a Star Trek convention to guys who are obsessed by real life mass murderers and cinematic sex and violence. All of these mags are of interest to somebody. Personally, I like publications that can tell me something I can't find out in slick pro-zines and that review a lot of obscure videos. If you love horror, exploitation, or even science-fiction movies; choose from this (alphabetical) list, enjoy unique views, and support a large and growing underground movement that has spread to Europe and Australia. (I'll get to foreign fanzines in a future issue.)

BLOOD TIMES—The newest third issue of this bi-monthly, xeroxed video guide reviews 22 PSYCHOTRONIC tapes and is illustrated with movie ad art. A bargain at 60¢ an issue, a one-year subscription is \$3.60. Best of all the *Blood Times* staff convinced me to find and rent a tape I'd never heard of: CITY OF SHADOWS, a

science-fiction, film noir, action flick that they hint is like *BLADERUNNER* by John Waters (!). Send your checks or money orders to publisher Louis Paul or editor Heidi Stock at Retrospective Rock Enterprises, 115 E. 4th St., Brooklyn, NY 11218.

DRACULINA—I only have one issue (#7) of this irregularly published mag, but its 44 pages feature letters, interviews, articles and lots of photos. The interviews include John Waters, *LAST HOUSE ON THE LEFT* director Sean Cunningham, and *I SPIT ON YOUR GRAVE* star Camille Keaton. Articles cover lesbian vampire movies and wrestling women mags and tapes. The photos are mostly a mixture of the kind you would find in a mixture of *Fangoria* and *Celebrity Skin*. Some of the contributors are well known from other fanzines, and the editors are pretty organized for fanzine people (they sell back issues and rare videotapes, and encourage you to use your credit cards). A four issue subscription is \$12 from Draculina Publishing, P.O. Box 115, Moro, IL 62067. Also ask for info on their other publication, *Maniac Shopper*.

ECCO—The first eight-page issue of *Ecco* is dedicated to "Mondo Movies"; those fascinating/sick documentaries that were popular mostly from '63 to '71. Editor Charles Kilgore has included rare photos and ads and a well researched, detailed guide to some of the more notorious mondo movies with room left to review some recent horror tapes. He also sells rare original posters for classics like *SWEDEN, HEAVEN AND HELL*, *MONDO PAZZO* and of course *ECCO*, a film known for its segment about a French human "pin cushion". Send \$6 for six issues to Ecco, P.O. Box 65742, Washington, DC 20035.

GRIND—In HIGH TIMES (March, '88) I mentioned Richard Green's *CONFESSIONS OF A TRASH FIEND*, one of my favorite

early '80s fanzines. Well, Richard is back with *Grind* and he still likes to review a wide range of releases, from inane teen sex comedies to twisted foreign "art" films and the usual horror oddities. *Grind* is small (both sides of one page), but some of the best 'zines from six years ago were even smaller. Issues are only 50¢ or \$5 for a year of monthly issues. Write Green at PO Box 32, Old Bridge, NJ 08857.

SOME LIKE IT CHILLED—A 30-page mag, issue #2 features an interview with Clive Barker and an interesting transcription of a lecture by Joe Dante, so it's more mainstream than some of these publications and resembles the old style fanzines that flourished in the '60s. Also featured are reviews of other fanzines, a few movie reviews, and a guide to TV film critics. Four irregularly published issues are \$10 from Dennis K. Fischer, 366 N. Spaulding Ave. #12, LA, CA 90036.

TRASH COMPACTOR—I only have one issue (#10) of this north of the border mag, but I want more! It's a unique 32-page look at some pretty sick cinema and features great large reproductions of rare ads for movies and (other strange items). Besides articles about Chesty Morgan (an "actress" with 73-32-36 measurements) and some of my favorite (good) sick movies, *PRIVATE PARTS* and *THE HONEYMOON KILLERS*, there's a hard to believe article—*The Top Ten Castration Films(!)*. Like *Blood Times*, several of the contributors are female, still a rarity in the mostly male horror fan world. I wish I knew what the subscription rate is, but an issue will cost you \$3.50, from 233A College St., Toronto, Canada, M5T 1R4. You might even want to request the earlier special, "Sick Fuck Movies" issue.

For one brief year when I was a kid, one publisher (Warren) had two horror magazines on the stands (*Famous Monsters of Filmland* and *Monster World*) and one science fiction magazine (*SPACEMAN*). For the first time in 24 (!) years, another company has a similar line-up, and it's great news for people who can't get enough about PSYCHOTRONIC movies. Starlog, a company that has successfully published *Fangoria* and *Starlog* for years, has added another horror title, *Gorezone*. It features the usual full color gory pictures, plus reviews and articles by some people who publish fanzines (or used to, like me), as well as a helpful Video Watchdog section. And if that isn't enough, another company has started a slick nationwide newsstand magazine called *Horror Fan*. All this publication activity is welcomed by me and just goes to prove that people with boring day jobs and access to xerox machines knew what was going on years before the publishers in tall buildings in Manhattan, who are still trying to figure out what might sell. Like I said before, if you're really into this stuff and rent a lot of movies, you can buy *all* the prozines and fanzines and still not be totally prepared for the current glut of tapes out there. But it can be a lot of fun trying. ●





The Rock 'n' Roll Hall of Fame

by James Marshall

It's about that time of year again for those self-promoting elder statesman of the record industry to start handing out awards for the ROCK'N'ROLL HALL OF FAME—as if, after last year's acid-induced ramblings by Mike Love, anyone could bother to take such bullshit seriously. Well, those who are inducted (sentenced?) are given quite a bit of publicity, so maybe it does help put some bucks in their pockets, but remember: the guys in charge of giving the awards are the same sperm-guzzling twerps who ripped them off for their songwriting and publishing royalties way back when and, in many cases (c.f. Bo Diddley), are still raking in the kopecks from it (more kopecks than ever, since Madison Ave. is buying the rights to old hits for TV commercials at an insatiable rate).

Last year I picked my choices for the next ten inductees to the Hall of Shame—in case you missed last Nov. HIGH TIMES they were: Ike Turner, Mickey Guitar Baker, Link Wray, Wanda Jackson, Hank Ballard & the Midnighters, the Maddox Brothers & Rose, Jimmy Reed, Esquerita, Richard Berry and Johnny Otis. None of them got in, although this year Hank Ballard & the Midnighters and Jimmy Reed have been nominated—Hank mostly through making an amazing reputation on the road through 1987-8, tearing it up coast to coast (most especially visible stealing the show at the New Orleans Jazz & Heritage Festival and the Chicago Blues Festival where they knocked 'em dead). Ike Turner has been nominated as part of a package deal with ex-wife/punching-bag Tina Turner (who doesn't deserve it; Ike's contributions go back to 1950 and are astounding; all she did was wiggle her snapper and give up real R&R as soon as she could get away from old slave driver Ike). Anyways, I might as well nominate a few more that'll never get in.

They'll never get in cause it's all bullshit! Ten of the 30 nominees recorded for Atlantic Records or one of its subsidiaries. Atlantic seems to be behind the thing more than anybody, so of course Atlantic founders Ahmet (Omelette to Wilson



The "5" Royales.

Pickett) Ertegun and Jerry Wexler got themselves elected first round. If they deserve to be in the Rock'N'Roll Hall of Fame more than Hank Ballard or Link Wray then I must be living on the wrong planet.

The Hound's next ten:

- 1). **JAMES BURTON**—session guitar genius behind Ricky Nelson, Bob Luman, Elvis, Dale Hawkins, ad infinitum, the original chicken pickin' master of the Telecaster.
- 2). **RENE HALL**—another session guitar slinger, producer and arranger who jammed severe distorted guitar on hits by Ritchie Valens, Larry Williams, Little Richard, Sam Cooke, Marvin Gaye, the Routers, and thousands more. Rock'n'roll would've sounded very soft without his influence.
- 3). **KEN NELSON**—Capitol Records A&R man/producer responsible for signing and producing Gene Vincent, Buck Owens, Esquerita, the Five Keys, Rose Maddox, Skeets McDonald, Merrill Moore, and many others. A sharper set of ears the music biz never saw again.
- 4). **DAVE BARTHOLOMEW**—New Orleans band leader who put together the band that backed Little Richard, Fats Domino (whose hits he produced and co-authored), Lloyd Price, Roy Brown, I could fill the whole mag with names he's worked with. The rolling sound of New Orleans rock'n'roll is the sound of the Dave Bartholomew Orchestra, still going strong to this very day.
- 5). **EDDIE COCHRAN**—Best known for "Summertime Blues", he amassed an amazingly solid catalogue of rock'n'roll classics in his short life and was one motherfucker of a guitar player.
- 6). **LEE ALLEN**—Tenor sax player extraordinaire, that's Lee on all of Little Richard's and Fats Domino's hits with his big fat tone and endless imagination. He even topped the charts on his lonesome with "Walkin'

With Mr. Lee" and still toots some nasty sounds when called upon (spent the early '80s touring with the Blasters at a fraction of his normal fee, how's that for dedication).

7). **DION**—He's a shoo-in, but he deserves it, one of the most soulful white voices ever.

8). **EARL PALMER**—Was to drums what Lee Allen was to Tenor sax. Hear him pound out the definitive rock'n'roll stomp on sides by Little Richard, Fats Domino, Ritchie Valens, etc. Today he heads the Musicians Union and never picks up the sticks, but there never was a better rock'n'roll drummer, never, ever.

9). **THE "5" ROYALES**—The most gospel-based, rawest and most soulful of the early vocal groups, also one of the first outfits to explore the possibilities of extreme guitar distortion courtesy of Lowman Pauling, their resident genius (and the man Steve Cropper cites as his main inspiration). Best remembered for the original versions of "Dedicated To the One I Love" and "Think", they left a legacy rivaled only by the Dominoes (whose lead singers Clyde McPhatter and Jackie Wilson have already been inducted) and the Midnighters.

10). **THE TEENAGERS**—Another shoo-in, but hey, people are still imitating Frankie Lymon (Ronnie Spector and Michael Jackson have made nice careers of it) and who could resist voting for a guy who was a star at age 10 and a dead junkie before he reached legal voting age. ●



Eddie Cochran



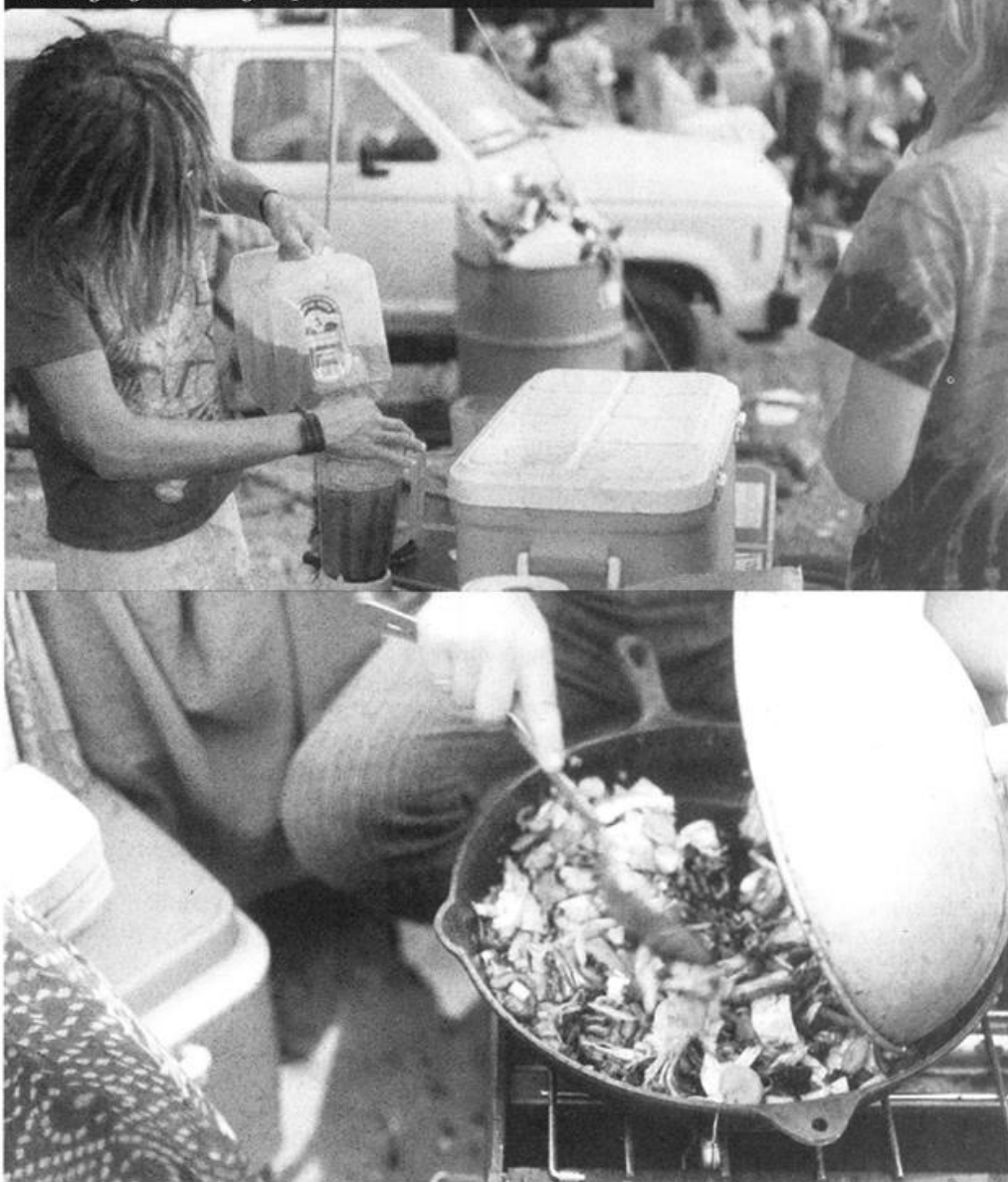
Deadhead Diners by Chef Ra

Summertime and the living is easy. The fish are jumpin' and this year the river is mighty low. It's June now and a few days before the summer solstice. Ra is truckin' down the road, headin' for the Dead shows in Alpine Valley, Wisconsin. As we load the car up with our dome tents, tie-dyes, and large bags of herb, we sing Grateful Dead songs, happily aware that we will soon be with our nation of freaks. Carol has fixed some Whole Earth peanut butter and jelly sandwiches to soothe the munchies as we smoke our way down the highway. Ra scored an extra ticket to the sold-out Sunday show, so we stop by a friend's house to pick her up.

It's about seven AM on Sunday when we dance to the front door, ready to go. Shelly's hippie dogs greet us as we come in with a loud hello and honor our presence by taking a hastily conceived shit right there on the living room floor. P—U! Is this a sign that everyone is hangin' loose and ready to party? But where is Shelly? She isn't up and ready to go. Something is amiss. With the dogs still barking, Shelly stumbles out of her room, hung over like the last lemming grabbing at the cliff's edge. Her eyes are barely open when she asks Carol and me, "What are you guys doing here so early?" Ra turns and answers, "We're goin' to the Dead shows, remember?" Bein' a farm girl, Shelly replies, "I thought it was next Sunday! Hell, I've got to go down on the farm and castrate pigs today!"

Well, needless to say, we leave Shelly rather quickly and blow down the road toward the shows. As we ride along, I can't help but notice how dry it is this year. The corn doesn't look good, and I'm hoping the ganja farmers out there have been watering their plants. Cruisin' down the road, we pass through small towns where we begin to see tie-dyed t-shirts hiding behind the wheels of vehicles as we pass. We're nearing the land of the Eternal Woodstock. Every year, we always camp at the Dead shows. This year, we camp near a beautiful lake near Alpine Valley. We pull up to our campsite and notice the tie-dyed people popping out amongst the weeds everywhere. The freaks are there to meet us. After pitching our domed tents, we sit down and open a cool barley pop (beer). All of a sudden, a wild hippy fellow leaps out of the weeds with a big smile and says, "Wanna smoke a joint, dude?" and Ra replies, "Is Garcia

Deadhead Diners (see below) offer a unique and satisfying culinary experience.



CHEF RA

playin' in the band? Let's smoke!" We finished about a dozen large spliffs and a few more barley pops, and for dessert we have a few of Chef Ra's special mushroom puff pastries.

Now we're ready for the shows. One thing that makes the Alpine shows so groovy is that they're held in a giant outdoor amphitheater. The Alpine shows still have their roots in the Woodstock genre. People stream into the show site from all directions. Beads and bangles are everywhere. People are walking through cornfields and abandoning their cars in country ditches. Chef Ra makes his way through the crowds to the big hippy party. But Chef Ra is on a mission! This time, to discover the simple, delectable Deadhead epicurean delights.

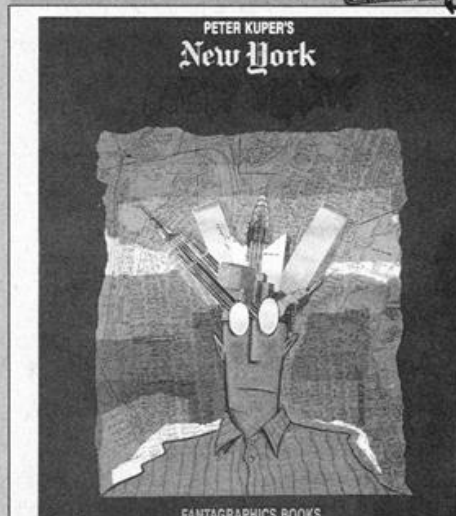
So guess who's coming to dinner? Chef Ra, the dreadhead Deadhead! Chef Ra is searching the festival grounds for the ultimate of eateries—THE DEADHEAD DINER!!! A Deadhead Diner is a mobile food stand operated by

folks who believe a freak needs a bit to eat! Chef Ra's ultrasonic nose traces the strong smell of West Indian curry. The Chef spies a colorfully dressed hippy earth mother gently turning fresh vegetables and curry yellow rice in a wok. As her spoon turns the gloriously healthy counterculture cuisine, she beckons Chef Ra by saying, "Curry fried rice! When it's got insight it's got to be right!"

The main attribute of Deadhead Diners is that they are "guerilla restaurants," totally movable food stands. Each wok is capable of disappearing at any sign of Babylonian vendor crackdown, i.e., the Pax-Man and the Food Axe-Man. For instance, one Deadhead drives up in a rent-a-truck. He flings open the back door, sets up small tables, flowers and a tablecloth, then pulls out a fully operational steam table and begins selling Szechuan eggrolls and super beany freaky burritos. Talk about cross-cultural cuisine!

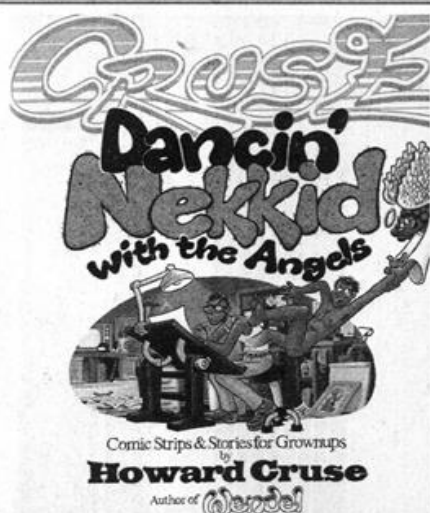
continued on page 96

BOOKSHELF



continued from page 89

Books), a snazzy collection of grim urban-bummer strips (a couple of which first appeared here) and hilarious bits out of the artist's subway sketchbooks. Kuper brilliantly captures the great duality of life in the Big Shitty—yokky absurdity so thoroughly mixed with terrifying reality that you can't really tell them apart ("The Man Who Drew Too Much"). In *Buzz Bomb* (also Fantagraphics), artist Kaz (full handle: Kazimieras G. Prapuolenis) cranks up the surreality dials to 11, and gives us a nightmarish landscape of an entirely



different nature. Kaz's comics reference both high and low cultures (à la mentor Art Spiegelman), and, happily, display a healthy viciousness toward both. Ex-underground Howard Cruse's *Dancin' Nekkid With The Angels* (St. Martin's Press) covers things a little less grimly, but no less trenchantly. Cruse's social satire lampoons gay stereotypes, and Crumb-ily draws on the artist's own life to make pointed commentary on modern humanity of all types. Three unique comic voices that deserve bookshelf entombment, even by my standards. Hot stuff, eh? ●

Deadhead Diners

continued from page 95

The veggie hot dog stand is always a favorite to check out. The hot dogs aren't the kind you get at the ballpark, and the veggie hot dog folks will teach you a good lesson on how animals are slaughtered. After looking at the graphic photos of blood and guts, and a chicken decapitating machine covered with blood, you might not want to eat a weenie for a while.

The Deadhead Diner aids in the fight to save our environment from pollution. Any starving Deadheads in need of a meal can offer their services and clean the festival grounds of recyclable material in exchange for a happy hippy meal.

Also, the Diners have bagels with cream cheese, banana and peanut butter sandwiches, pasta, tacos, and mounds of falafel. What great stoned-out taste treats!

Continuing on my quest, I find one freak who has close ties to the ital ways of the Rastaman. He makes tropical fresh fruit drinks while praising Selassie-I and jamming reggae music from his microbus.

Although in recent years, some of the larger food concerns have moved in with their Coney Island/football game-type junk food, the tiny Deadhead Diners still strive on. I guess it's the American Way. If you have a good product, you don't have to be bigtime to be successful in the marketplace. So when all you Deadheads out there go to the shows, just look for that Deadhead Diner and keep a tradition in counterculture eatin' alive. Rasta pasta for peace with every bite you eat!

Ra's Berry Cake

When you are on tour with the Grateful Dead, there are certain priorities. The first one is to stay as high as possible. When you're trippin', shroomin', and smokin', you've got little time for cookin' large complex meals. So Chef Ra says, "Let's keep it simple and have a tasty cosmic dessert." So here's the recipe.

1 shortcake shell (for each Deadhead)

1 pint of fresh or frozen blueberries, raspberries, or strawberries

1 container of canned whipped cream (you can use the gas later)

1/4 stick of butter

1/4 oz. of fine green sinsi

Melt the butter in a small cup (in a double boiler setup). Heat the sinsi in the warm butter for 10 minutes, making sure not to overheat or burn the butter. Pour the butter into the small depression in each shortcake shell. Add the cream on top of the butter, then pour your berries over the cream. This Deadhead delight is guaranteed to make you fruity and feelin' fine! ●

computers



EMERALD TRIANGLE

(Moonshine Software, PO Box 101, Laytonville, CA 95454. For Commodore 64 computers)

"Your wealthy uncle, who made a fortune during prohibition, has died and left you 40 acres with a cabin in the heart of the Emerald Triangle, the northern California counties: Humboldt, Trinity, and Mendocino. You decide to try your

hand at growing marijuana. You have \$5,500 expense money for the season...

"If you survive the season and have any dope, then you will travel to the city of San Francisco to sell it! You are seeking Mick Bagger who has ready cash for good sensimillia (sic) buds."

That's how *Emerald Triangle*, the first-ever computer game about growing pot, begins. Although it bills itself as "The Adventure Game", *Emerald Triangle* is neither a text adventure, nor an arcade-style computer game. It's more like an interactive instruction manual on how to grow pot in the great outdoors.

First, you buy a few female plants and all the necessary supplies—everything from chicken wire to rat traps to HIGH TIMES (you can even pay your NORML dues). As you plant, irrigate and camouflage, helpful hints—like "paint the chicken wire so it doesn't shine in the sun"—appear. Kicking back and relaxing, as well as listening to local gossip ("Spy planes can see your crop from 50,000 feet!") and "A senator says END PROHIBITION! Profits could evaporate!"), are essential to winning.

The problem with *Emerald Triangle* is, no matter how well you play the game, more than likely a CAMP helicopter will swoop down and bust you. (Hmm... maybe this game is TOO realistic!)

—Buford Bosko

THE TOP 100 HAS BEEN TAKEN OVER BY THE MONSTER PLANTS

- 1** THE GRATEFUL DEAD LAST MONTH
- 2** PINK FLOYD
- 3** BONG HITS
- 4** LED ZEPPELIN
- 5** PEACE
- 6** NO TAXATION WITHOUT LEGALIZATION
- 7** Jim Morrison
- 8** SEX
- 9** BIG, GREEN, STICKY, STINKY BUDS
- 10** DYLAN
- 11** CHRIS + GREG'S ULTIMATE PARTY HOUSE
- 12** SEX ON ACID
- 13** Staples, Ltd.
- 14** LEGALIZE POT
- 15** JAMES MARSHALL HENDRIX (WHERE THE MEN ARE IDYLL AND THE WOMEN WILD!)
- 16** Idyllwild, CA FOR
- 17** RON PAUL PRESIDENT
- 18** METALLICA
- 19** MAIL A JOINT TO REAGAN ON HALLOWEEN
- 20** AC/DC
- 21** GET FRED FLINTSTONED
- 22** GO NORML (95 KLSX LA)
- 23** JIM LADD (95 KLSX LA)
- 24** LUCKY DOG (COOTER)
- 25** PROGRESS KILLS
- 26** TODD LOVES CHERYL WHITELEY
- 27** GROWING YOUR OWN AT CAL POLY
- 28** NANCY'S A COKE SLUT
- 29** 3 STONED FARMERS IN THE DELCO
- 30** MEGADETH
- 31** FRITZ
- 32** 'SHROOMS
- 33** SIR BOB GELDOP
- 34** GARRY SHANDLING'S THEME SONG
- 35** DR. INDOORS
- 36** SINSEMILLA FLOWERS
- 37** HIPPIES- THE BEST WAY TA LIVE
- 38** Janis Joplin
- 39** I LOATHE THE GRATEFUL DEAD
- 40** ME + JERRY PISSED IN JARS NOW WE'RE BEHIND BARS DON'T THAT SUCK
- 41** XTC (THE BAND)
- 42** JAPAZOO (A BIG ASS JOINT)
- 43** HAWKWIND
- 44** ANN ARBOR'S HASH BASH
- 45** CHURCH LADY
- 46** PLAYING "VIETNAM"
- 47** FUCK MEN, PERIOD (WHO NEEDS THEM?)
- 48** EAST TEXAS HOMEGROWN
- 49** HOT KNIVES (HEAT TWO KNIVES 'TIL RED, TRAP HASH BETWEEN THEM, 50 AND SUCK HARD) JK, ENGLAND
- 50** HANK WILLIAMS, JR.
- 51** GROWING IN ALASKA-LEGALLY
- 52** IRON BUTTERFLY
- 53** I HATE THOSE MEESE'S TO PIECES
- 54** BUCKWHEAT SAY (CRACK) AIN'T NO TAY
- 55** Hallucinations
- 56** HARLEYS
- 57** 44-28-38 MY MEASUREMENTS (36-24-36 MUST BE JOKING)
- 58** ZOË
- 59** BUSH/NORIEGA IN '88
- 60** FREEDOM
- 61** BURNING ISSUES
- 62** THE BEST POT NEWSLETTER
- 63** JIMMY PAGE'S NEW SOLO ALBUM - 2 THUMBS UP
- 64** ABC DEF UCK
- 65** GROW TODAY HIGH TOMORROW
- 66** PORTABLE SCALES
- 67** JESUS
- 68** DEADHEADS UNITE
- 69** Howard Stern
- 70** POPULAR DELUSIONS AND MADNESS MONTHLY (A MAGAZINE)
- 71** THE DIXIE DREGS
- 72** THE TELEPHONE
- 73** FREE ALL DRUG LAW PRISONERS
- 74** MIDNIGHT RIDER
- 75** PAUL C'S STRATO-BONG HITS
- 76** MINNESOTA GRASS-ROOTS PARTY- VOTE THE WAY YOU SMOKE!
- 77** BEING OFF SPEED BUT STILL SMOKIN'
- 78** METAL, INC.
- 79** FIGHTING FOR PEACE IS LIKE FUCKING FOR VIRGINITY
- 80** JAMES BOND (WE KNOW WHAT'S IN THOSE CIGARS)
- 81** DOKKEN
- 82** WOMEN'S LIB-FLAPPERS IN THE '20s
- 83** NYC AT NIGHT - WHAT A STRANGE PLANET
- 84** FTN (FUCK THE NAVY) I WAS THERE! BASTARDS
- 85** OJAI
- 86** CHICKEN RIVER FUNKY PIE
- 87** MICHAEL J. FOX IS THE ANTI-ELVIS CORPSE
- 88** ASTRAL TRIPS
- 89** PRAISE THE ALMIGHTY FOR HE IS THE GIVER OF HERB
- 90** LSD
- 91** MOTÖRHEAD
- 92** WRITING MY BOYFRIEND DAVID WHO'S DOING 5 YEARS IN SUSANVILLE FOR BEING A VICTIM OF THIS ASININE DRUG WAR! PEACE TO ALL, LOVE, DAWN
- 93** RUSH
- 94** PARTY NAKED
- 95** green M+Ms
- 96** Maui Mango Buds
- 97** LYNRYD SKYNYRD
- 98** MARIJUANA GHOULS
- 99** THE CHESTERFIELD KINGS
- 100** THE PRISONER
- 101** EATABLE CAMEL TOE

TOP 100/NORMLTHON NEWS UPDATE

CHECKS (+CASH) ARE STILL COMING IN FOR OUR NORMLTHON, SO I GUESS IT'S A YEAR-LONG EVENT NOW! SINCE I'VE FINISHED THE FINAL TALLY, I'LL START THE 1989 LIST! ANY TIME YOU SEND A CHECK OR MONEY ORDER MADE OUT TO NORML C/O THE TOP 100, ALONG WITH THE ONE THING YOU'D LIKE ON THE LIST, I'LL PUT IT ON OUR SPECIAL NORMLTHON TOP 100!

#1

#2

#3

USE THIS HANDY-DANDY BALLOT! FILL IT OUT WITH YOUR FAVORITE STUFF + MAIL IT TO:
HIGH TIMES TOP 100
211 EAST 43RD ST.
NEW YORK, NY
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One stop shopping

■ LIGHTING SYSTEMS

(all systems are completely wired with quiet, ventilated ballast enclosure and quick-disconnect lamp lead)
2 year ballast warranty and 1 year lamp warranty

1000W Metal Halide	189.00
(Superbulb)	
400W Metal Halide	139.00
(Superbulb)	
Metal Halide Phosphor	
Coated Bulbs	add 5.00
175W Metal Halide	110.00
1000W High Pressure Sodium	259.00
400W High Pressure Sodium	189.00
150W High Pressure Sodium	110.00
Horizontal or Parabolic Reflectors for 1000W Systems add \$10.00 & for 400W Systems add \$20.00	

■ BULBS

1 year lamp warranty

METAL HALIDE:

MS1000, 125,000 lumens	59.00
MS1000 Hor., 125,000 lumens,	
horizontal	69.00
MS400, 40,000 lumens	44.00
MS400 Hor., 40,000 lumens,	
horizontal	54.00
Metal Halide Phosphor	
Coated Bulbs	add 5.00
M175, 15,000 lumens	29.00

HIGH PRESSURE SODIUM:

LU1000, 140,000 lumens	69.00
LU400, 50,000 lumens	45.00
LU150, 16,000 lumens	32.00

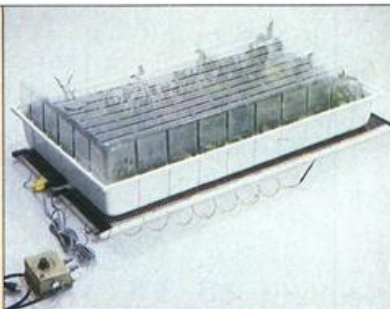
HIGH PRESSURE SODIUM CONVERSION:

940W, 140,000 lumens	139.00
360W, 50,000 lumens	69.00

FLUORESCENT TUBES:

24" Gro Lux	7.95
24" Vita Lite	12.50
48" Gro Lux	9.95
48" Vita Lite, Power Twist	13.95

EBB-FLOW SYSTEM \$39.00/Module*



PROFESSIONAL PROPAGATION SYSTEM
\$169.00

Includes: 1 - 44" x 24" x 11" Propagation Dome, 2 Pro Heat Mats, Thermostat w/ Remote Probe & 1qt Cloning Solution

■ REFLECTORS

(Polar white finish on all, sockets included)

22" Round	24.95
44" Conical	39.95
48" Parabolic	54.95
84" Parabolic	169.95
Horizontal HPS	49.95
Horizontal MH	54.95

■ LIGHT MOVERS

4" Light Track	99.00
6" Light Track	99.00
1LS Sun Circle	139.00
2LS Sun Circle	199.00
3LS Sun Circle	259.00

■ HYDROPONICS

HYDRO-FLO I 265.00
Incl: 6 trays, 36 one gallon pots, reservoir, pump, timer, filter, irrigation, rockwool, nutrients & pH Control

Expansion Module 16.00

HYDRO CELL II 250.00

Incl: 12 two gallon cells, reservoir, pump, timer, filter, irrigation, rockwool, nutrients & pH Control

Expansion Cell 6.00

■ TEST EQUIPMENT

Digital pH Pen	59.95
Digital Dissolved Salts Pen	59.95
Combination pH &	
Dissolved Salts Meter	399.00
Professional Digital Light	
Meter	175.00
CO ₂ Tester	8.95
CO ₂ Analyzer Tubes	4.50
MIN-MAX Thermometer	12.95
Temperature Humidity Gauge	12.95
30x Light Scope	26.95
100x Light Scope	49.95



Includes: 44" x 24" Tray & Irrigation System
*(Benching, Pump, Timer & Reservoir purchased separately)

■ CO₂ SYSTEMS

Injection System, w/o tank	179.00
Injection System w/ exhaust control, w/o tank	279.00
CO ₂ Regulator/Flow Meter	79.95
DANSCO Propane Burner/	
CO ₂ Generator	269.00
Johnson Propane Burner/	
CO ₂ Generator	499.00

■ ODOR CONTROL

Zestron 700 Ionizer	79.95
Zestron 1000 Ionizer	79.95
Zestron Collector Ionizer	110.00
Zestron 3600 Ionizer	320.00
DANSCO Charcoal Air Filter	79.95
Ozone Generator for total odor removal	839.00

■ TIMERS

15A 120V, 24hr, Heavy Duty	19.95
15A 240V, 24hr, Heavy Duty	24.95
40A 120V, 24hr, Industrial	33.95
40A 240V, 24hr, Industrial	38.95
40A 120V, 1-60 minute cycle	67.95
15A 120V, 4 ON - 4 OFF, 1 minute min.	26.95

■ FANS & BLOWERS

100 CFM Axial Fan	25.95
240 CFM Axial Fan	57.95
560 CFM Axial Fan	68.95
60 CFM, Squirrel Cage	33.95
100 CFM, Squirrel Cage	38.95
140 CFM, Squirrel Cage	40.95
265 CFM, Squirrel Cage	49.95
465 CFM, Squirrel Cage	61.95
745 CFM, Squirrel Cage	128.95
980 CFM, Squirrel Cage	122.95
1450 CFM, Squirrel Cage	151.95
300 CFM, Duct Fan	44.95
425 CFM, Duct Fan	47.95
660 CFM, Duct Fan	51.95
9" Oscillating Table Fan	24.95
12" Oscillating Table Fan	33.95
16" Oscillating Table Fan	48.95
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12" Wall Mount Fan	52.95
16" Wall Mount Fan	59.95

■ THERMOSTATS & HUMIDISTATS

Thermostat, heating or cooling	19.95
Thermostat, heating or cooling w/ remote probe	34.95
Humidistat 40 - 90%	47.95
Combo Thermostat-Humidistat Fan Controller completely wired with 2 outlets	109.95

■ SUBMERSIBLE PUMPS

120 GPH	36.95
140 GPH	38.95
170 GPH	39.95
205 GPH w/ float control	59.95
240 GPH	47.95
1250 GPH	67.95

■ PROPAGATION AIDS

24" x 44" x 11" Propagation Dome	49.95
48" x 11" Pro-Heat Tape	21.95
Thermostat w/ remote probe ± 1°	69.95
Woods Roofing Compound	7.95
Rootone F, 2oz	4.49
Olivia's Cloning Solution, 1 qt	11.95
Olivia's Cloning Solution, 1 gal	39.95

■ ROCKWOOL

1 1/4 x 1 1/4 Multi-Blocks07
2 x 2 Multi-Blocks10
3 x 3 Cube34
4 x 4 Cube48
6" x 3' Slab	4.75
8" x 3' Slab	6.25
12" x 3' Slab	9.50
45lb Repellent Bale	28.50
35lb Absorbant Bale	22.00
55lb Absorbant Bale	49.00
Full case discount of 10% on Rockwool products	

■ REFLECTANTS

4' x 25' Mylar	17.95
4' x 50' Mylar	27.95
4' x 100' Mylar	44.95
20' x 100' White Visqueen	59.95



SLAB SYSTEM \$59.00/Module*

Includes 3 - 3' x 8" Rockwool Slabs, Drip Irrigation System & Tray
*(Benching, Pump, Timer & Reservoir purchased separately)

■ BOOKS

Gardening Indoors	16.95
Beginning Hydroponics	7.95
Hydroponic Food Production	29.95
Rockwool in Horticulture	34.95

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OCTOBER 1988



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